



2024产品选型手册

GDT/ TSS/ TVS/ ESD/ MOV/ PTC/ KOV

您的电路保护专家



PCIC 产品符合性检验中心
TUV莱茵授权目击实验室

2009年 专注浪涌保护15年

深圳市瑞隆源电子有限公司（以下简称：瑞隆源电子）成立于 2009 年，致力于过压过流保护产品的研发、生产和市场推广。

瑞隆源电子是高新技术企业、专精特新“小巨人”企业。主要产品有陶瓷气体放电管(GDT)，压敏电阻(MOV)，浪涌抑制器(SPD)，复合防护单元(KOV)，瞬态抑制二极管(TVS)，静电保护阵列(ESD)，自恢复保险丝(PTC) 等。

瑞隆源电子坚持走自主品牌、自主创新的发展道路，打造RUILON品牌。未来，瑞隆源电子将继续加强产品的技术更新和市场推广，持续优化产品结构，延展市场影响力，力争成为更有竞争力的民族品牌。

Shenzhen Ruilongyuan Electronics Co., Ltd. (The following are called RUILON) was established in 2009. RUILON committed to over-voltage and over-current protection products research and development, production and marketing .

RUILON has been awarded as the national high-tech enterprise , recognized as a national specialized, special and new "Small Giant" enterprise. RUILON's main products are Gas Discharge Tube(GDT), Metal Oxide Varistors(MOV), Surge Protective Device(SPD), Keep Off Varistor(KOV), Transient Voltage Suppressors(TVS), Electrostatic Discharged Protection Devices(ESD), Positive Thermal Coefficient(PTC), and other series of surge protection components and surge suppressors.









In the future, RUILON will continue to stengthen product technology research and development and market investment, optimize product structure, expand the market, and strive to become a world-class leading supplier in the field of over-voltage and over-current componets.



PCIC An audit of the laboratory was conducted according to ISO/IEC 17025 by a TUV Rheinland auditor.

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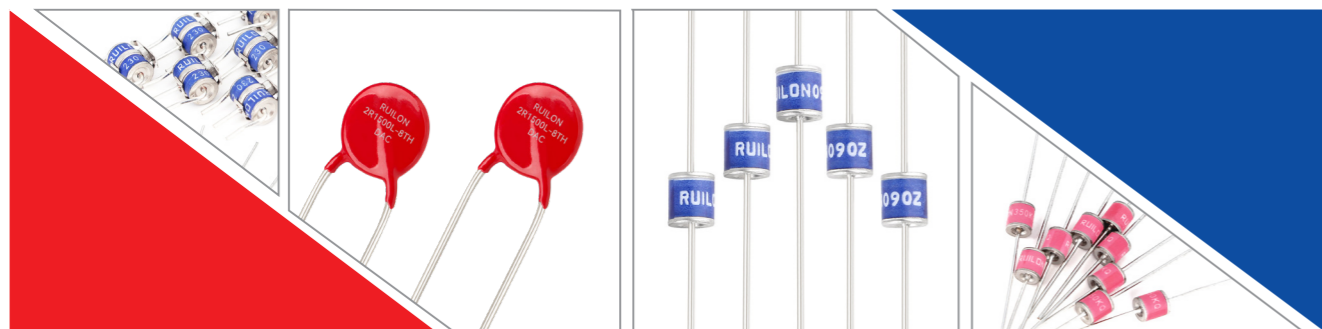
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产品特点 Features

极间电容低

Low capacitance.

浪涌电流大

High surge current capability.

绝缘性好

Good insulation.

电压可从几十伏到上百伏甚至上千伏

Voltage can be from dozens of volts to hundreds of volts even KV.

对快速上升瞬态电压具有出色的响应能力

Excellent response to fast rising transients.

应用范围 Application

防雷器	通讯设备	电源产品	电话接口线卡	XDSL设备
Lightning Protection Device	Communications Equipment	Power Supply Products	Telephone Interface/Line Cards	XDSL Equipment

陶瓷气体放电管 Gas Discharge Tubes (GDT)

GDT二极管				
SMD3216 Series	90~600V	8/20μS	0.5KA	1
SMD2921 Series	90~600V	8/20μS	1KA	2
SMD3225 Series	75~800V	8/20μS	1KA	3
SMD4532 Series	70~800V	8/20μS	2KA	4
SMD4042 Series	75~1000V	8/20μS	3KA	5
SMD5050 Series	75~800V	8/20μS	5KA	6
SMD5050-B Series	75~470V	8/20μS	10KA	7
2RB-8S Series	75~1000V	8/20μS	10KA	8
2RD-8S Series	75~1000V	8/20μS	20KA	9
2RA-5 Series	75~800V	8/20μS	5KA	10
2RB-5 Series	75~470V	8/20μS	10KA	11
2RB-8 Series	75~800V	8/20μS	10KA	12
2RD-8 Series	75~800V	8/20μS	20KA	13
2RT-8T2 Series	90~800V	8/20μS	10~20KA	14
2RS-8TX Series	800~3000V	8/20μS	5~10KA	15
2R-8TH Series NEW	90~3000V	8/20μS	5~10KA	16

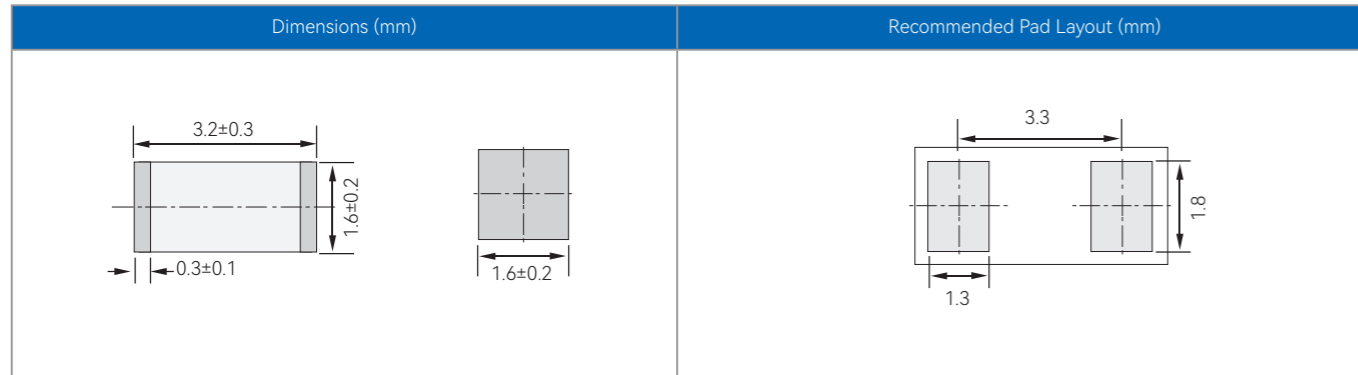
GDT三极管				
3RA-5S Series	75~800V	8/20μS	5KA	17
3RB-5S Series	75~470V	8/20μS	10KA	18
3RA-5SS Series	75~800V	8/20μS	5KA	19
3RB-5SS Series	75~470V	8/20μS	10KA	20
3RB-8S Series	75~800V	8/20μS	10KA	21
3RD-8S Series	75~600V	8/20μS	20KA	22
3RA-6 Series	70~800V	8/20μS	5KA	23
3RB-6 Series	70~600V	8/20μS	10KA	24
3RB-8 Series	75~800V	8/20μS	10KA	25
3RD-8 Series	75~800V	8/20μS	20KA	26

GDT高压管				
SMD5050 Series	1000~3600V	8/20μS	3KA	27
2R-5 Series	1000~4500V	8/20μS	3~5KA	28
2R-8 Series	1000~4500V	8/20μS	5~10KA	29
2R-8T Series	800~6300V	8/20μS	5~10KA	30

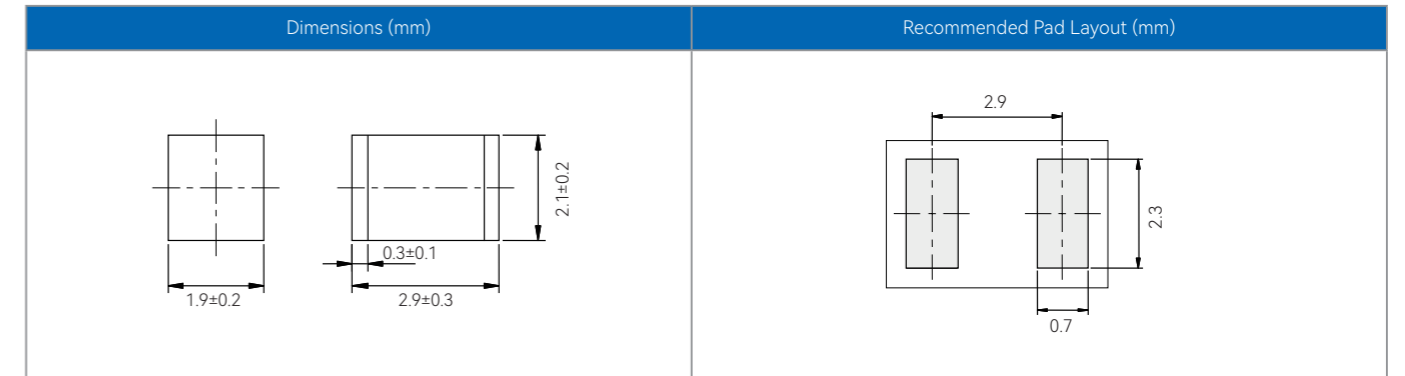
GDT开关管				
2RK-5 Series	230~600V	-	-	31
2RK-8 Series	230~800V	-	-	32

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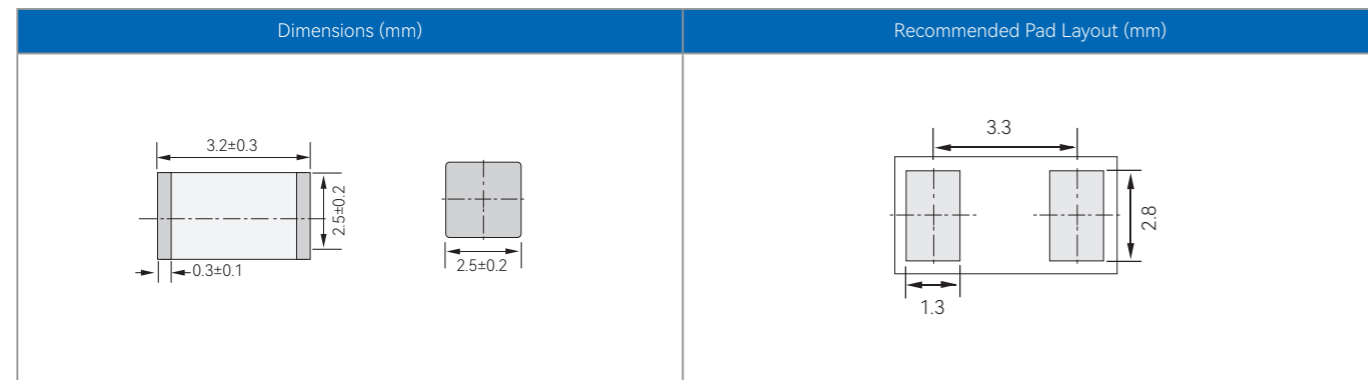
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1 MHz	Glow Voltage @10mA	Arc Voltage @1A	Service life		
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		Impulse Withstanding Voltage Capacity @10/700 μ S, 40 Ω \pm 5 times
		Max	Max					\pm 5 times	1 time	
		V	V							KA
SMD3216 Series Gas Discharge Tubes										
SMD3216-090N	90 \pm 30%	600	700	1	0.3	60	10	0.5	-	6
SMD3216-150N	150 \pm 30%	600	700	1	0.3	60	10	0.5	-	6
SMD3216-200N	200 \pm 30%	650	750	1	0.3	60	10	0.5	-	6
SMD3216-230N	230 \pm 30%	650	750	1	0.3	60	10	0.5	-	6
SMD3216-300N	300 \pm 30%	700	800	1	0.3	60	10	0.5	-	6
SMD3216-350N	350 \pm 30%	750	850	1	0.3	60	10	0.5	-	6
SMD3216-400N	400 \pm 30%	850	950	1	0.3	60	10	0.5	-	6
SMD3216-420N	420 \pm 30%	850	950	1	0.3	60	10	0.5	-	6
SMD3216-470N	470 \pm 30%	1000	1100	1	0.3	60	10	0.5	-	6
SMD3216-600N	600 \pm 30%	1200	1400	1	0.3	60	10	0.5	-	6



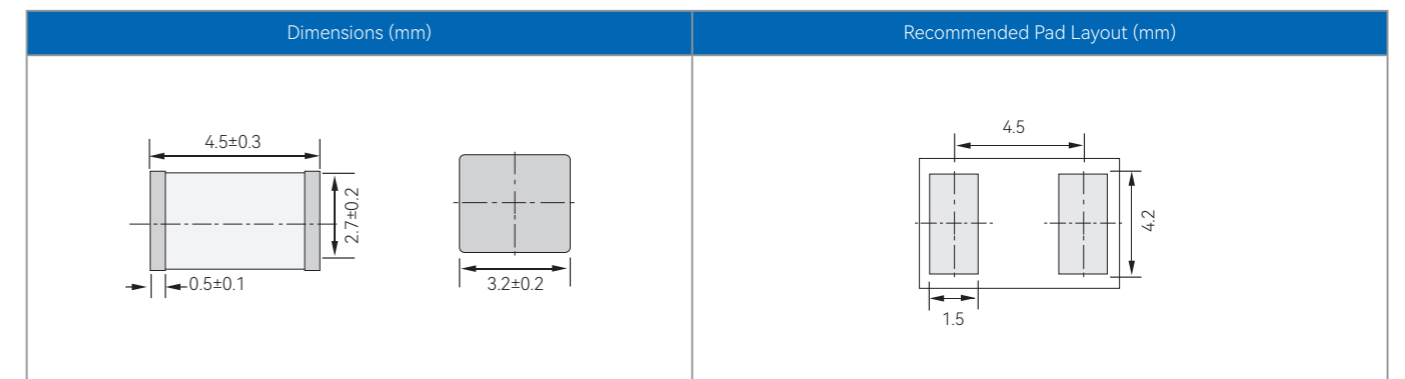
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings				
		100V/ μ S	1KV/ μ S					Impulse Discharge Current @8/20 μ S		AC Discharge Current @50Hz 1S	Impulse Withstanding Voltage Capacity @10/700 μ S, 40 Ω \pm 5 times	Impulse Life @10/1000 μ S
		Max	Max					\pm 5 times	1 time			
		V	V							V	G Ω	pF
SMD2921 Series Gas Discharge Tubes												
SMD2921-090N	90 \pm 30%	500	600	1	0.5	60	10	1	-	-	6	10
SMD2921-120N	120 \pm 30%	500	600	1	0.5	60	10	1	-	-	6	10
SMD2921-150N	150 \pm 30%	500	600	1	0.5	60	10	1	-	-	6	10
SMD2921-200N	200 \pm 30%	600	700	1	0.5	60	10	1	-	-	6	10
SMD2921-230N	230 \pm 30%	600	700	1	0.5	60	10	1	-	-	6	10
SMD2921-300N	300 \pm 30%	700	800	1	0.5	60	10	1	-	-	6	10
SMD2921-350N	350 \pm 30%	800	900	1	0.5	60	10	1	-	-	6	10
SMD2921-400N	400 \pm 30%	850	950	1	0.5	60	10	1	-	-	6	10
SMD2921-470N	470 \pm 30%	900	1000	1	0.5	60	10	1	-	-	6	10
SMD2921-600N	600 \pm 30%	1100	1200	1	0.5	60	10	1	-	-	6	10



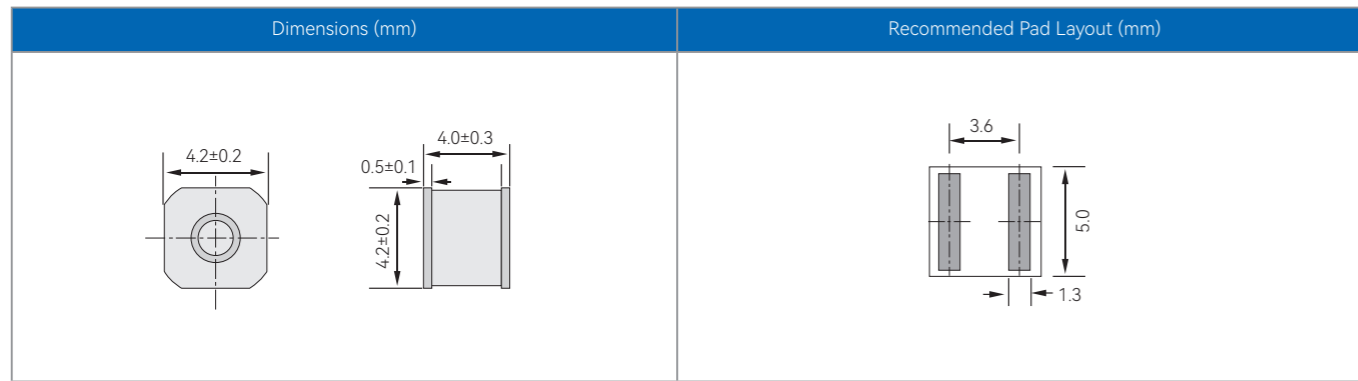
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings				
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		AC Discharge Current @50Hz 1S	Impulse Withstanding Voltage Capacity @10/700 μ S, 40 Ω \pm 5 times	Impulse Life @10/1000 μ S
		Max	Max					+5 times	1 time	5 times		
		V	V								G Ω	pF
SMD3225 Series Gas Discharge Tubes												
SMD3225-075N	75 \pm 30%	500	600	1	0.5	60	10	1	1.5	1	6	10
SMD3225-090N	90 \pm 30%	500	600	1	0.5	60	10	1	1.5	1	6	10
SMD3225-120N	120 \pm 30%	500	600	1	0.5	60	10	1	1.5	1	6	10
SMD3225-150N	150 \pm 30%	500	600	1	0.5	60	10	1	1.5	1	6	10
SMD3225-200N	200 \pm 30%	600	700	1	0.5	60	10	1	1.5	1	6	10
SMD3225-230N	230 \pm 30%	600	700	1	0.5	60	10	1	1.5	1	6	10
SMD3225-300N	300 \pm 30%	700	800	1	0.5	60	10	1	1.5	1	6	10
SMD3225-350N	350 \pm 30%	750	850	1	0.5	60	10	1	1.5	1	6	10
SMD3225-400N	400 \pm 30%	800	900	1	0.5	135	15	1	1.5	1	6	10
SMD3225-470N	470 \pm 30%	850	950	1	0.5	135	15	1	1.5	1	6	10
SMD3225-600N	600 \pm 30%	900	1000	1	0.5	135	15	1	1.5	1	6	10
SMD3225-800N	800 \pm 30%	1200	1400	1	0.5	135	15	1	1.5	1	6	10



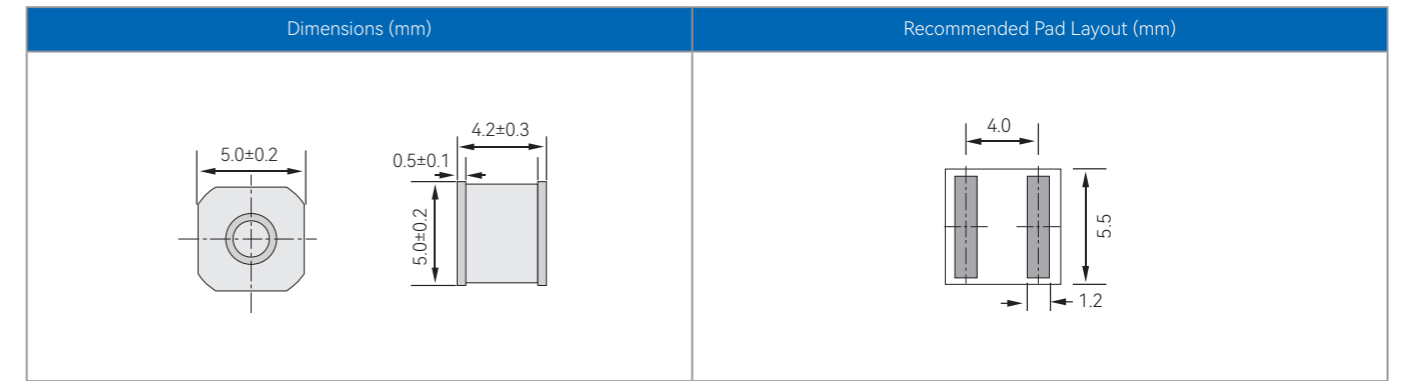
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings				
		100V/ μ S	1KV/ μ S					Impulse Discharge Current @8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Withstanding Voltage Capacity @10/700 μ S, 40 Ω \pm 5 times	Impulse Life @10/1000 μ S
		Max	Max					+5 times	1 time	5 times		
		V	V								G Ω	pF
SMD4532 Series Gas Discharge Tubes												
SMD4532-070NF	70 \pm 30%	500	600	1	0.5	60	10	2	3	2	6	10
SMD4532-075NF	75 \pm 30%	500	600	1	0.5	60	10	2	3	2	6	10
SMD4532-090NF	90 \pm 30%	500	600	1	0.5	60	10	2	3	2	6	10
SMD4532-120NF	120 \pm 30%	500	600	1	0.5	60	10	2	3	2	6	10
SMD4532-150NF	150 \pm 30%	500	600	1	0.5	60	10	2	3	1	6	10
SMD4532-200NF	200 \pm 30%	600	700	1	0.5	60	10	2	3	1	6	10
SMD4532-230NF	230 \pm 30%	600	700	1	0.5	60	10	2	3	1	6	10
SMD4532-300NF	300 \pm 30%	700	800	1	0.5	60	10	2	3	1	6	10
SMD4532-350NF	350 \pm 30%	750	800	1	0.5	60	10	2	3	1	6	10
SMD4532-400NF	400 \pm 30%	800	850	1	0.5	135	15	2	3	1	6	10
SMD4532-420NF	420 \pm 30%	800	850	1	0.5	135	15	2	3	1	6	10
SMD4532-470NF	470 \pm 30%	800	900	1	0.5	135	15	2	3	1	6	10
SMD4532-500NF	500 \pm 30%	850	950	1	0.5	135	15	2	3	1	6	10
SMD4532-600NF	600 \pm 30%	900	1000	1	0.5	135	15	2	3	1	6	10
SMD4532-800NF	800 \pm 30%	1200	1400	1	0.5	135	15	2	3	1	6	10



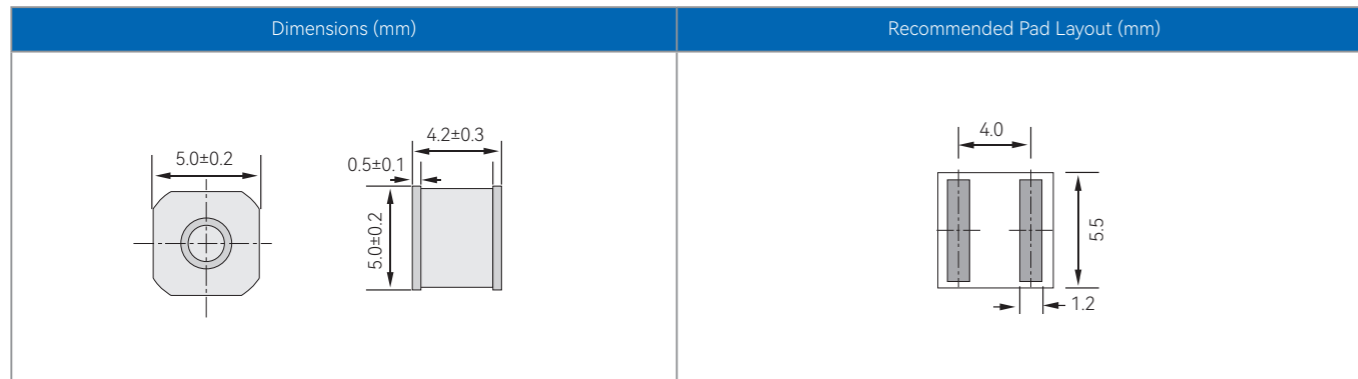
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		AC Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
		Max	Max	Min	Max	Typ.	Typ.	+5 times	1 time	10 times	300 times
		V	V	V	G Ω	pF	V	V	KA	KA	A
SMD4042 Series Gas Discharge Tubes											
SMD4042-075E	75 \pm 20%	500	600	1	0.8	60	10	3	6	3	100
SMD4042-090E	90 \pm 20%	500	600	1	0.8	60	10	3	6	3	100
SMD4042-150E	150 \pm 20%	500	600	1	0.8	60	10	3	6	3	100
SMD4042-200E	200 \pm 20%	600	700	1	0.8	60	10	3	6	3	100
SMD4042-230E	230 \pm 20%	600	700	1	0.8	60	10	3	6	3	100
SMD4042-300E	300 \pm 20%	700	800	1	0.8	60	10	3	6	3	100
SMD4042-350E	350 \pm 20%	750	850	1	0.8	60	10	3	6	3	100
SMD4042-400E	400 \pm 20%	800	900	1	0.8	135	15	3	6	3	100
SMD4042-470E	470 \pm 20%	850	950	1	0.8	135	15	3	6	3	100
SMD4042-600E	600 \pm 20%	900	1000	1	0.8	135	15	3	6	3	100
SMD4042-800E	800 \pm 20%	1200	1400	1	0.8	135	15	3	6	3	100
SMD4042-1000E	1000 \pm 20%	1400	1600	1	0.8	135	15	3	6	3	100



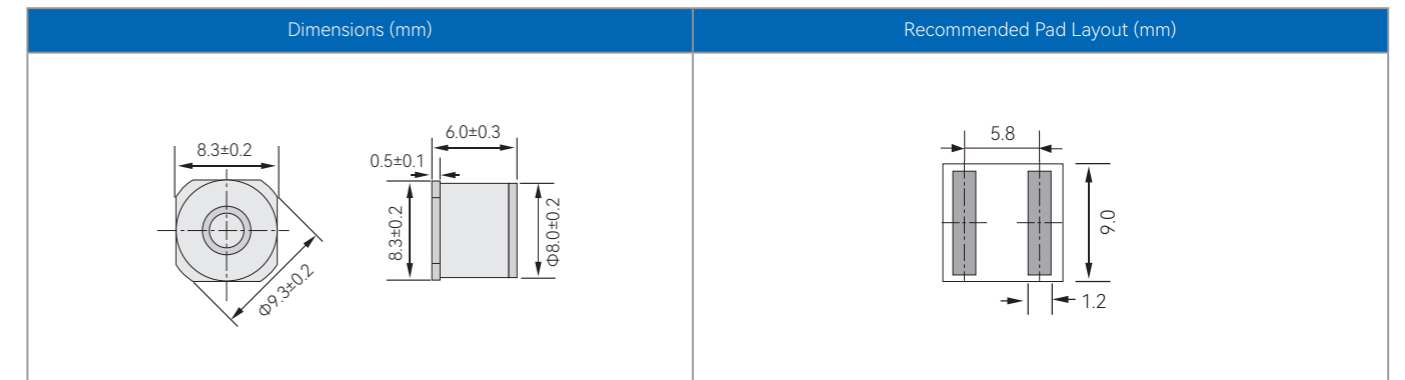
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
		Max	Max	Min	Max	Typ.	Typ.	+5 times	1 time	10 times	300 times
		V	V	V	G Ω	pF	V	V	KA	KA	A
SMD5050 Series Gas Discharge Tubes											
SMD5050-075NA	75 \pm 30%	500	600	1	0.8	60	10	5	10	5	100
SMD5050-090NA	90 \pm 30%	500	600	1	0.8	60	10	5	10	5	100
SMD5050-150NA	150 \pm 30%	500	600	1	0.8	60	10	5	10	5	100
SMD5050-200NA	200 \pm 30%	600	700	1	0.8	60	10	5	10	5	100
SMD5050-230NA	230 \pm 30%	600	700	1	0.8	60	10	5	10	5	100
SMD5050-300NA	300 \pm 30%	750	850	1	0.8	60	10	5	10	5	100
SMD5050-350NA	350 \pm 30%	800	900	1	0.8	60	10	5	10	5	100
SMD5050-400NA	400 \pm 30%	800	900	1	0.8	135	15	5	10	5	100
SMD5050-420NA	420 \pm 30%	850	950	1	0.8	135	15	5	10	5	100
SMD5050-470NA	470 \pm 30%	850	950	1	0.8	135	15	5	10	5	100
SMD5050-600NA	600 \pm 30%	900	1000	1	0.8	135	15	5	10	5	100
SMD5050-800NA	800 \pm 30%	1200	1400	1	0.8	135	15	5	10	5	100



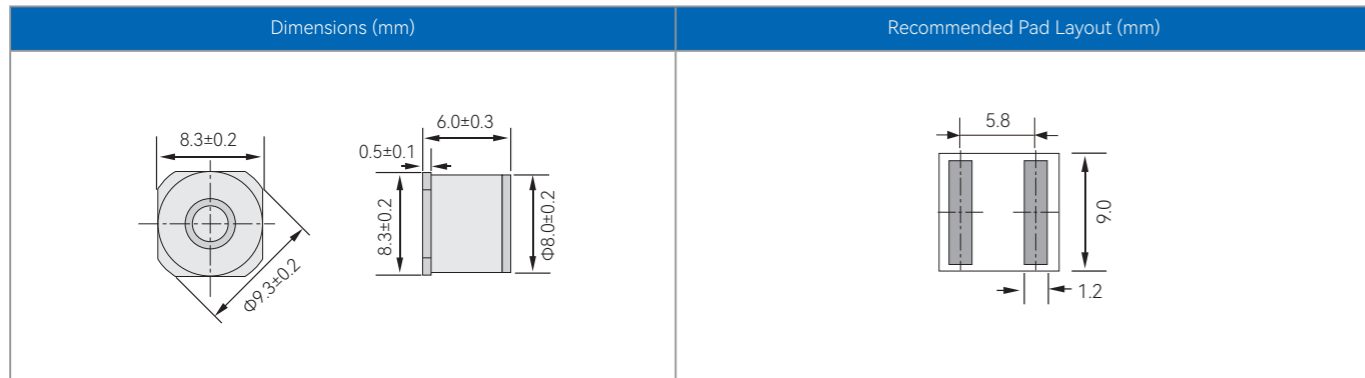
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
		Max	Max					±5 times	1 time		
		V	V							KA	KA
SMD5050-B Series Gas Discharge Tubes											
SMD5050-075NB	75±30%	500	600	1	0.8	60	10	10	12	10	100
SMD5050-090NB	90±30%	500	600	1	0.8	60	10	10	12	10	100
SMD5050-150NB	150±30%	500	600	1	0.8	60	10	10	12	10	100
SMD5050-200NB	200±30%	600	700	1	0.8	60	10	10	12	10	100
SMD5050-230NB	230±30%	600	700	1	0.8	60	10	10	12	10	100
SMD5050-300NB	300±30%	750	850	1	0.8	60	10	10	12	10	100
SMD5050-350NB	350±30%	800	850	1	0.8	60	10	10	12	10	100
SMD5050-400NB	400±30%	850	950	1	0.8	60	10	10	12	10	100
SMD5050-420NB	420±30%	850	950	1	0.8	60	10	10	12	10	100
SMD5050-470NB	470±30%	900	1000	1	0.8	60	10	10	12	10	100



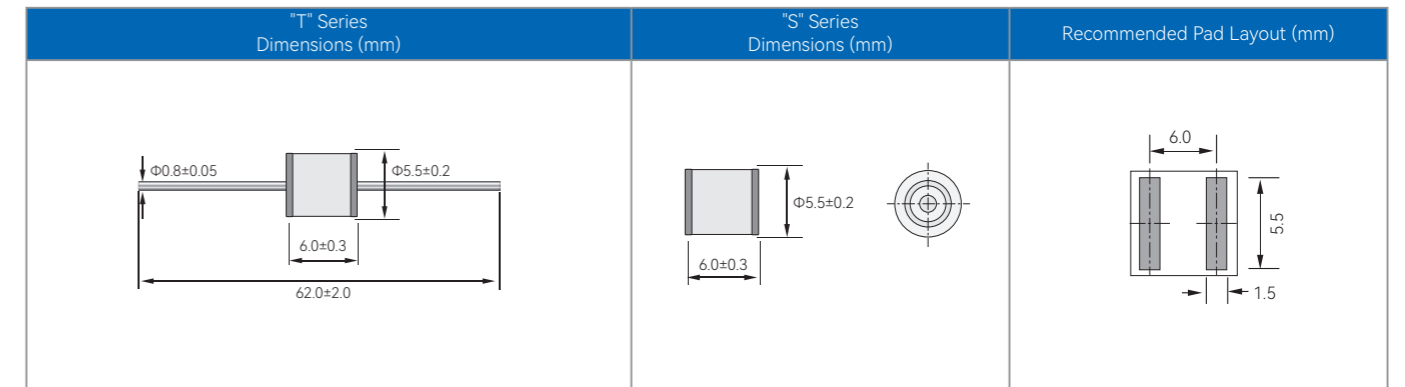
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	15Life Ratings			
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
		Max	Max					±5 times	1 time		
		V	V							G Ω	pF
2RB-8S Series Gas Discharge Tubes											
2R075B-8S	75±20%	500	600	1	1.5	60	10	10	20	10	100
2R090B-8S	90±20%	500	600	1	1.5	60	10	10	20	10	100
2R150B-8S	150±20%	500	600	1	1.5	60	10	10	20	10	100
2R230B-8S	230±20%	600	700	1	1.5	60	10	10	20	10	100
2R250B-8S	250±20%	600	700	1	1.5	60	10	10	20	10	100
2R300B-8S	300±20%	750	850	1	1.5	60	10	10	20	10	100
2R350B-8S	350±20%	750	850	1	1.5	60	10	10	20	10	100
2R400B-8S	400±20%	800	900	1	1.5	135	15	10	20	10	100
2R420B-8S	420±20%	800	900	1	1.5	135	15	10	20	10	100
2R470B-8S	470±20%	800	900	1	1.5	135	15	10	20	10	100
2R600B-8S	600±20%	900	1000	1	1.5	135	15	10	20	10	100
2R800B-8S	800±20%	1200	1400	1	1.5	135	15	10	20	10	100
2R1000B-8S	1000±20%	1400	1600	1	1.5	135	15	10	20	10	100



Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Life Ratings					
		100V/ μ S	1KV/ μ S			Impulse Discharge Current@8/20 μ S		Impulse Voltage @1.2/50 μ S	Impulse Discharge Current @10/350 μ S	Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
		Max	Max			±5 times	1 time	±5 times	1 time	10 times	300 times
		V	V			V	G Ω	pF	KA	KA	KV
2RD-8S Series Gas Discharge Tubes											
2R075D-8S	75±20%	500	600	1	1.5	20	25	40	4	20	200
2R090D-8S	90±20%	500	600	1	1.5	20	25	40	4	20	200
2R150D-8S	150±20%	500	600	1	1.5	20	25	40	4	20	200
2R230D-8S	230±20%	600	700	1	1.5	20	25	40	4	20	200
2R250D-8S	250±20%	600	700	1	1.5	20	25	40	4	20	200
2R300D-8S	300±20%	750	850	1	1.5	20	25	40	4	20	200
2R350D-8S	350±20%	800	900	1	1.5	20	25	40	4	20	200
2R400D-8S	400±20%	850	950	1	1.5	20	25	40	4	20	200
2R420D-8S	420±20%	850	950	1	1.5	20	25	40	4	20	200
2R470D-8S	470±20%	900	1000	1	1.5	20	25	40	4	20	200
2R600D-8S	600±20%	1000	1200	1	1.5	20	25	40	4	20	200
2R800D-8S	800±20%	1200	1400	1	1.5	20	25	40	4	20	200
2R1000D-8S	1000±20%	1500	1600	1	1.5	20	25	40	4	20	200

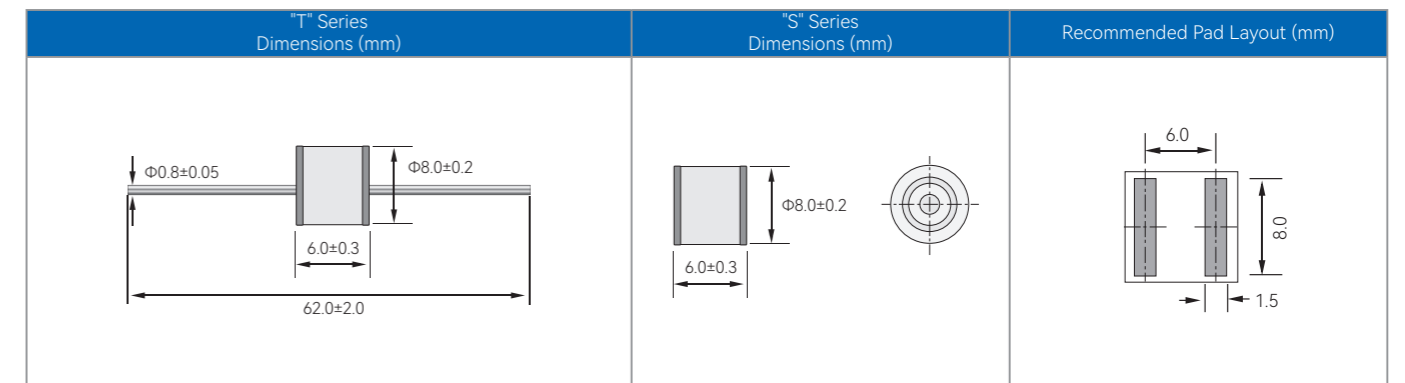
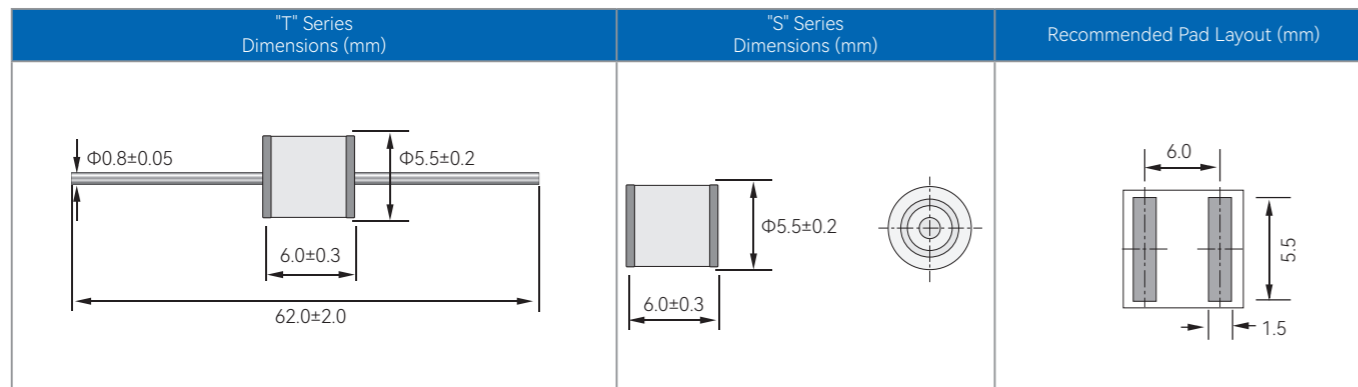


Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings				
			100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S	
			Max	Max					±5 times	1 time	10 times	300 times	
			V	V					V	G Ω	pF	V	V
2RA-5 Series Gas Discharge Tubes													
2R075TA-5	2R075SA-5	75±20%	500	600	1	1	60	10	5	10	5	100	
2R090TA-5	2R090SA-5	90±20%	500	600	1	1	60	10	5	10	5	100	
2R150TA-5	2R150SA-5	150±20%	500	600	1	1	60	10	5	10	5	100	
2R230TA-5	2R230SA-5	230±20%	600	700	1	1	60	10	5	10	5	100	
2R250TA-5	2R250SA-5	250±20%	600	700	1	1	60	10	5	10	5	100	
2R300TA-5	2R300SA-5	300±20%	750	850	1	1	60	10	5	10	5	100	
2R350TA-5	2R350SA-5	350±20%	800	900	1	1	60	10	5	10	5	100	
2R400TA-5	2R400SA-5	400±20%	850	950	1	1	60	10	5	10	5	100	
2R420TA-5	2R420SA-5	420±20%	850	950	1	1	60	10	5	10	5	100	
2R470TA-5	2R470SA-5	470±20%	900	1000	1	1	60	10	5	10	5	100	
2R600TA-5	2R600SA-5	600±20%	1000	1200	1	1	60	10	5	10	5	100	
2R800TA-5	2R800SA-5	800±20%	1200	1400	1	1	135	15	5	10	5	100	



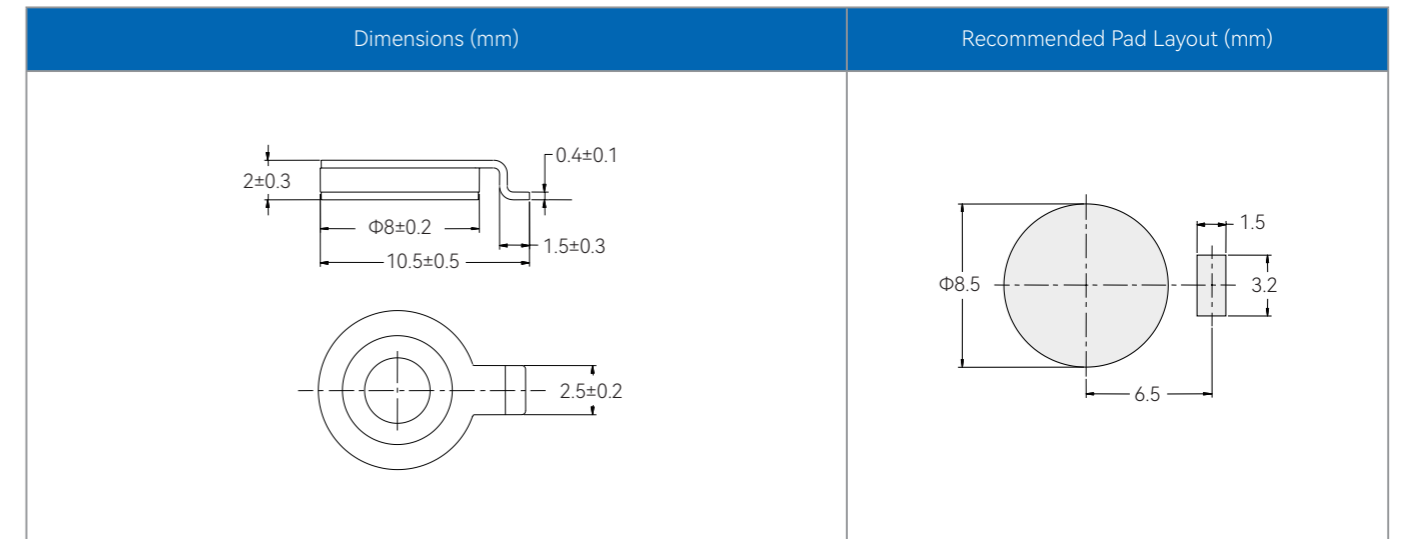
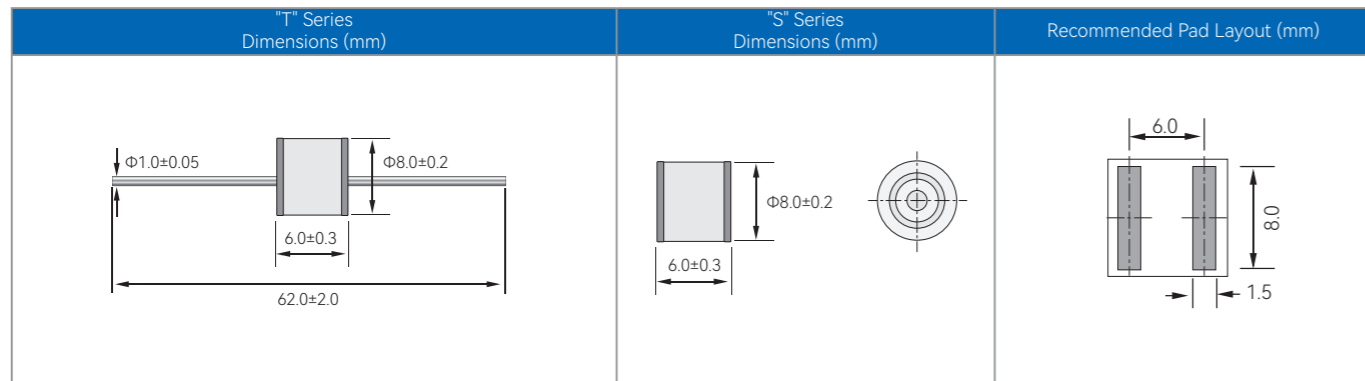
Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
			100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
			Max	Max					+5 times	1 time		
DIP	SMD	V	V	V	GΩ	pF	V	V	KA	KA	A	A
2RB-5 Series Gas Discharge Tubes												
2R075TB-5	2R075SB-5	75±20%	500	600	1	1	60	10	10	12.5	10	100
2R090TB-5	2R090SB-5	90±20%	500	600	1	1	60	10	10	12.5	10	100
2R120TB-5	2R120SB-5	120±20%	500	600	1	1	60	10	10	12.5	10	100
2R150TB-5	2R150SB-5	150±20%	500	600	1	1	60	10	10	12.5	10	100
2R230TB-5	2R230SB-5	230±20%	600	700	1	1	60	10	10	12.5	10	100
2R250TB-5	2R250SB-5	250±20%	600	700	1	1	60	10	10	12.5	10	100
2R300TB-5	2R300SB-5	300±20%	750	850	1	1	60	10	10	12.5	10	100
2R350TB-5	2R350SB-5	350±20%	800	900	1	1	60	10	10	12.5	10	100
2R420TB-5	2R420SB-5	420±20%	850	950	1	1	60	10	10	12.5	10	100
2R470TB-5	2R470SB-5	470±20%	900	1000	1	1	60	10	10	12.5	10	100

Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
			100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
			Max	Max					+5 times	1 time		
DIP	SMD	V	V	V	GΩ	pF	V	V	KA	KA	A	A
2RB-8 Series Gas Discharge Tubes												
2R075TB-8	2R075SB-8	75±20%	500	600	1	1.5	60	10	10	20	10	100
2R090TB-8	2R090SB-8	90±20%	500	600	1	1.5	60	10	10	20	10	100
2R150TB-8	2R150SB-8	150±20%	500	600	1	1.5	60	10	10	20	10	100
2R230TB-8	2R230SB-8	230±20%	600	700	1	1.5	60	10	10	20	10	100
2R250TB-8	2R250SB-8	250±20%	600	700	1	1.5	60	10	10	20	10	100
2R300TB-8	2R300SB-8	300±20%	700	800	1	1.5	60	10	10	20	10	100
2R350TB-8	2R350SB-8	350±20%	700	800	1	1.5	60	10	10	20	10	100
2R400TB-8	2R400SB-8	400±20%	750	850	1	1.5	135	15	10	20	10	100
2R420TB-8	2R420SB-8	420±20%	750	850	1	1.5	135	15	10	20	10	100
2R470TB-8	2R470SB-8	470±20%	800	900	1	1.5	135	15	10	20	10	100
2R600TB-8	2R600SB-8	600±20%	900	1000	1	1.5	135	15	10	20	10	100
2R800TB-8	2R800SB-8	800±20%	1200	1400	1	1.5	135	15	10	20	10	100

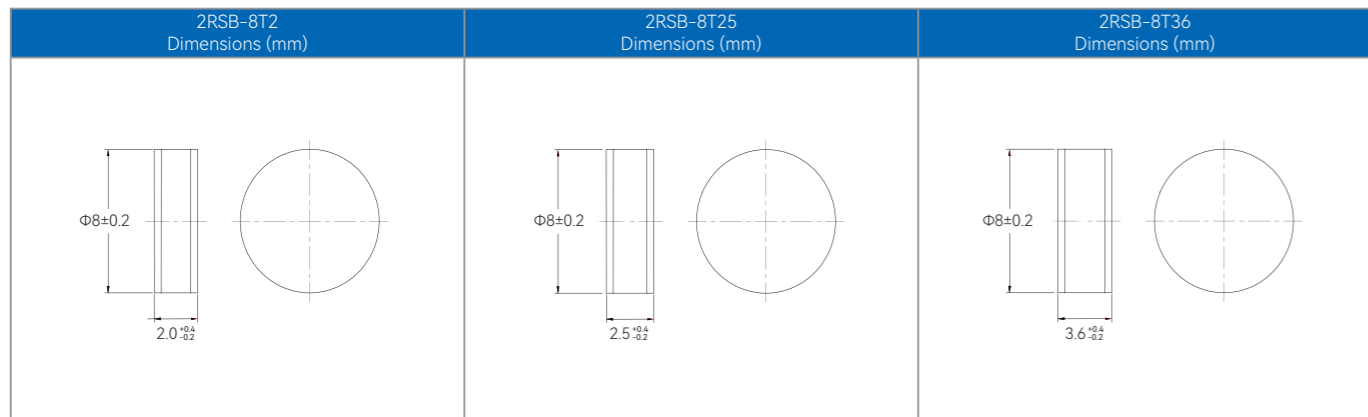


Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
			100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
			Max	Max					+5 times	1 time		
DIP	SMD	V	V	V	GΩ	pF	V	V	KA	KA	A	A
2RD-8 Series Gas Discharge Tubes												
2R075TD-8	2R075SD-8	75±20%	500	600	1	1.5	60	10	20	25	20	100
2R090TD-8	2R090SD-8	90±20%	500	600	1	1.5	60	10	20	25	20	100
2R150TD-8	2R150SD-8	150±20%	500	600	1	1.5	60	10	20	25	20	100
2R230TD-8	2R230SD-8	230±20%	600	700	1	1.5	60	10	20	25	20	100
2R250TD-8	2R250SD-8	250±20%	600	700	1	1.5	60	10	20	25	20	100
2R300TD-8	2R300SD-8	300±20%	750	850	1	1.5	60	10	20	25	20	100
2R350TD-8	2R350SD-8	350±20%	800	900	1	1.5	60	10	20	25	20	100
2R420TD-8	2R420SD-8	420±20%	900	1000	1	1.5	60	10	20	25	20	100
2R470TD-8	2R470SD-8	470±20%	900	1100	1	1.5	60	10	20	25	20	100
2R600TD-8	2R600SD-8	600±20%	1000	1200	1	1.5	60	10	20	25	20	100
2R800TD-8	2R800SD-8	800±20%	1400	1600	1	1.5	60	10	20	25	20	100

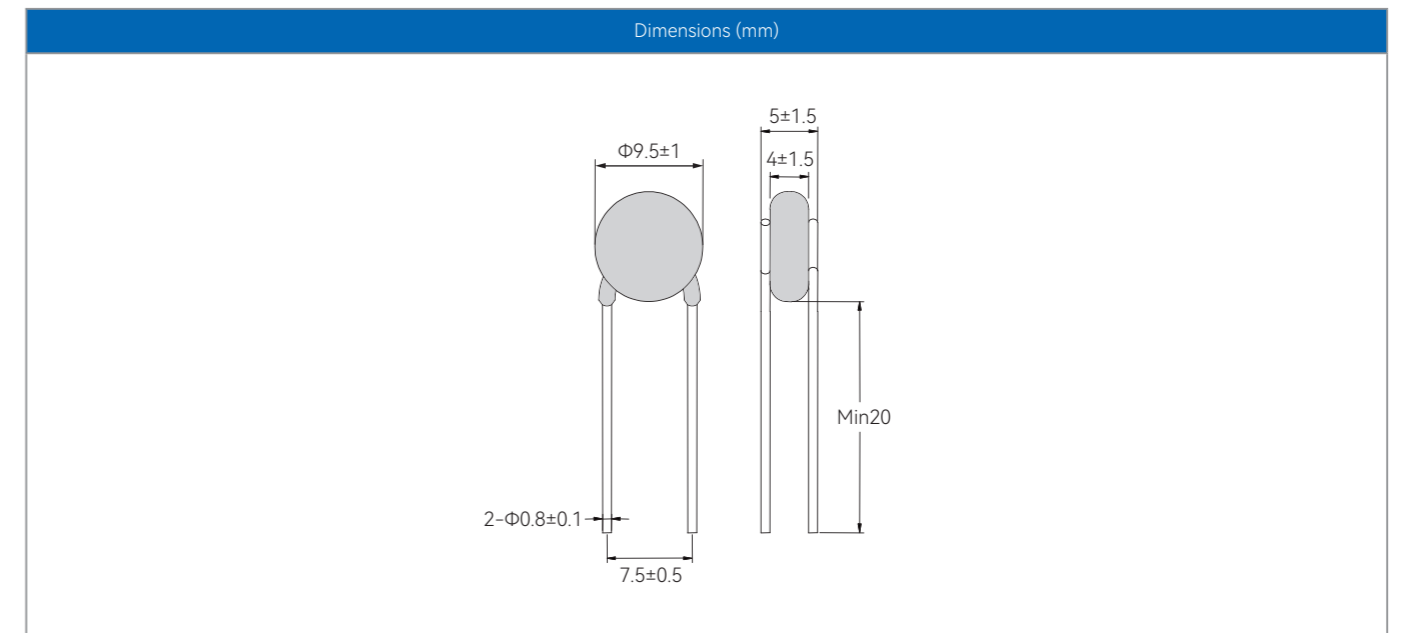
Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
			100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
			Max	Max					+5 times	1 time		
DIP	SMD	V	V	V	GΩ	pF	V	V	KA	KA	A	A
2RT-8T2 Series Gas Discharge Tubes												
2R090TB-8T2	90±20%	500	600	1	3.0	60	10	10	15	10	100	
2R090TD-8T2	90±20%	500	600	1	3.0	60	10	20	25	20	100	
2R150TB-8T2	150±20%	500	600	1	3.0	60	10	10	20	5	100	
2R230TB-8T2	230±20%	600	700	1	3.0	135	15	10	20	5	100	
2R350TB-8T2	350±20%	800	900	1	3.0	135	15	10	20	5	100	
2R470TB-8T2	470±20%	800	900	1	3.0	135	15	10	20	5	100	
2R600TB-8T2	600±20%	900	1000	1	3.0	135	15	10	20	5	100	
2R800TB-8T2	600±20%	1200	1400	1	3.0	135	15	10	20	5	100	



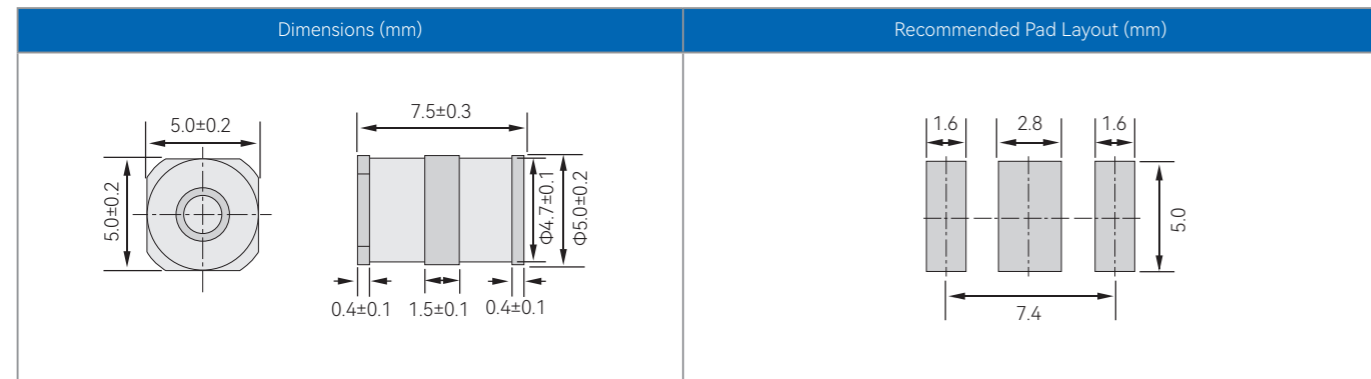
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
		Max	Max					\pm 5 times	1 time	5 times	300 times
		V	V					kA	kA	A	A
2RS-8TX Series Gas Discharge Tubes											
2R090SB-8T2	90 \pm 20%	500	600	1	3	60	10	10	20	10	100
2R150SB-8T2	150 \pm 20%	500	600	1	3	60	10	10	20	10	100
2R230SB-8T2	230 \pm 20%	600	700	1	3	135	15	10	20	10	100
2R350SB-8T2	350 \pm 20%	600	700	1	3	135	15	10	20	10	100
2R470SB-8T2	470 \pm 20%	800	900	1	3	170	18	10	20	10	100
2R600SB-8T2	540~780	800	1000	1	3	180	18	10	20	10	100
2R800SB-8T2	800 \pm 20%	1100	1200	1	3	180	18	10	20	10	100
2R800SB-8T25	800 \pm 20%	1100	1200	1	3	200	20	10	15	5	100
2R1000S-8T25	1000 \pm 20%	1300	1500	1	3	200	20	10	15	5	100
2R1200S-8T25	1200 \pm 20%	1600	1800	1	3	200	20	10	15	5	-
2R1500S-8T25	1500 \pm 20%	2100	2300	1	3	200	20	10	15	5	-
2R2000S-8T36	2000 \pm 20%	2800	3000	1	3	230	30	5	10	2	-
2R2500S-8T36	2500 \pm 20%	3600	3800	1	3	230	30	5	10	2	-
2R3000S-8T36	3000 \pm 20%	4000	4200	1	3	230	30	5	10	2	-



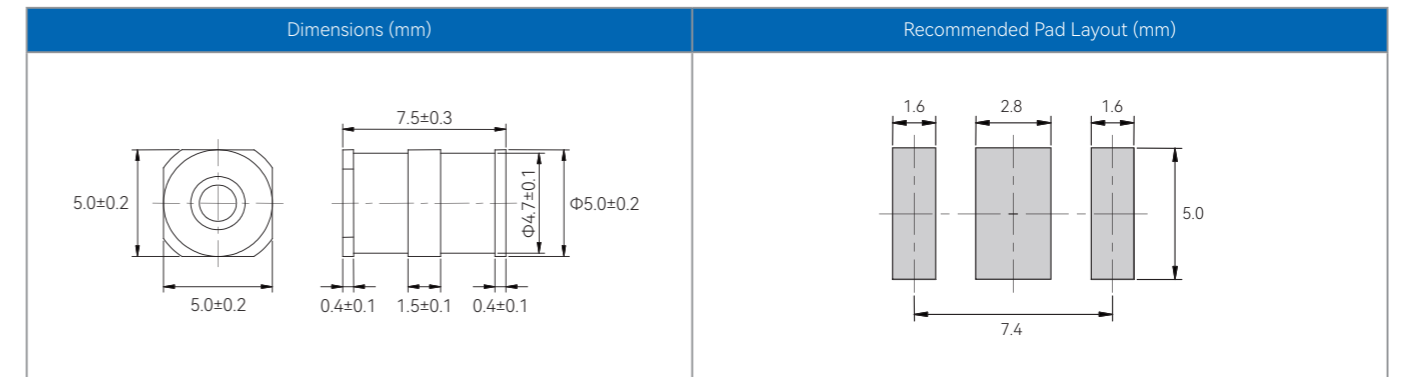
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/ μ S	1KV/ μ S					Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
		Max	Max					\pm 5 times	1 time	10 times	300 times
		V	V					kA	kA	A	A
2R-8TH Series Gas Discharge Tubes											
2R090LB-8TH	90 \pm 30%	500	600	1	3	60	10	10	20	10	100
2R150LB-8TH	150 \pm 30%	500	600	1	3	60	10	10	20	10	100
2R230LB-8TH	230 \pm 30%	600	700	1	3	135	15	10	20	10	100
2R350LB-8TH	350 \pm 30%	600	700	1	3	135	15	10	20	10	100
2R470LB-8TH	470 \pm 30%	800	900	1	3	170	18	10	20	10	100
2R600LB-8TH	600 \pm 30%	800	1000	1	3	180	18	10	20	10	100
2R800LB-8TH	800 \pm 30%	1100	1200	1	3	135	15	10	20	10	100
2R1000L-8TH	1000 \pm 30%	1300	1500	1	3	200	20	10	15	5	100
2R1200L-8TH	1200 \pm 30%	1600	1800	1	3	200	20	10	15	5	-
2R1500L-8TH	1500 \pm 20%	2100	2300	1	3	200	20	10	15	5	-
2R2000L-8TH	2000 \pm 20%	2800	3000	1	3	230	30	5	10	2	-
2R2500L-8TH	2500 \pm 20%	3600	3800	1	3	230	30	5	10	2	-
2R3000L-8TH	3000 \pm 20%	4000	4200	1	3	230	30	5	10	2	-



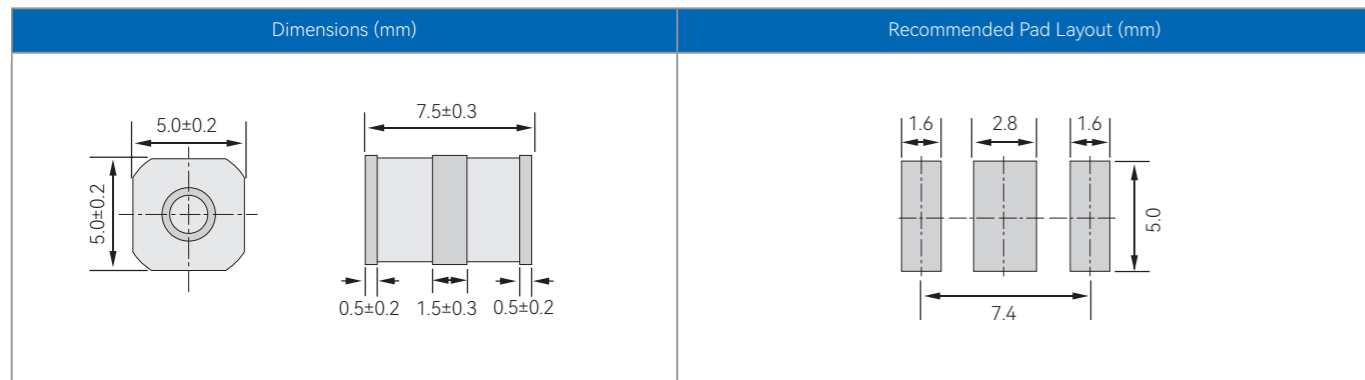
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
		Max	Max					±5 times	1 time		
		V	V					V	GΩ	pF	V
3RA-5S Series Gas Discharge Tubes											
3R075A-5S	75±20%	500	600	1	1	60	10	5	10	5	200
3R090A-5S	90±20%	500	600	1	1	60	10	5	10	5	200
3R150A-5S	150±20%	500	600	1	1	60	10	5	10	5	200
3R200A-5S	200±20%	600	700	1	1	60	10	5	10	5	200
3R230A-5S	230±20%	600	700	1	1	60	10	5	10	5	200
3R250A-5S	250±20%	600	700	1	1	60	10	5	10	5	200
3R350A-5S	350±20%	800	900	1	1	60	10	5	10	5	200
3R400A-5S	400±20%	850	950	1	1	135	15	5	10	5	200
3R420A-5S	420±20%	850	950	1	1	135	15	5	10	5	200
3R470A-5S	470±20%	900	1000	1	1	135	15	5	10	5	200
3R600A-5S	600±20%	1100	1200	1	1	135	15	5	10	5	200
3R800A-5S	800±20%	1400	1500	1	1	135	15	5	10	5	200



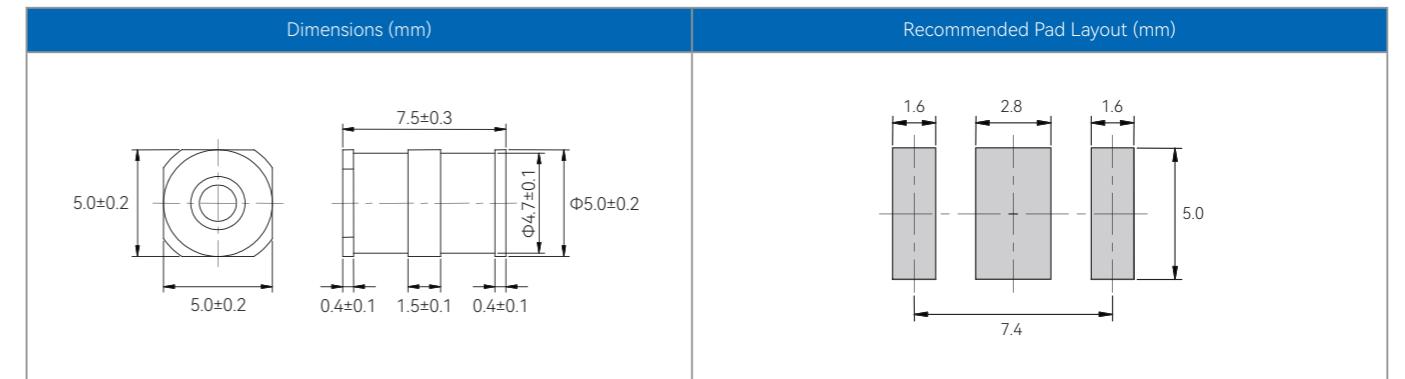
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
		Max	Max					±5 times	1 time		
		V	V					V	GΩ	pF	V
3RB-5S Series Gas Discharge Tubes											
3R075B-5S	75±20%	500	600	1	1	60	10	10	12	10	200
3R090B-5S	90±20%	500	600	1	1	60	10	10	12	10	200
3R150B-5S	150±20%	500	600	1	1	60	10	10	12	10	200
3R200B-5S	200±20%	600	700	1	1	60	10	10	12	10	200
3R230B-5S	230±20%	600	700	1	1	60	10	10	12	10	200
3R250B-5S	250±20%	600	700	1	1	60	10	10	12	10	200
3R350B-5S	350±20%	800	900	1	1	60	10	10	12	10	200
3R400B-5S	400±20%	850	950	1	1	60	10	10	12	10	200
3R420B-5S	420±20%	850	950	1	1	60	10	10	12	10	200
3R470B-5S	470±20%	900	1000	1	1	60	10	10	12	10	200



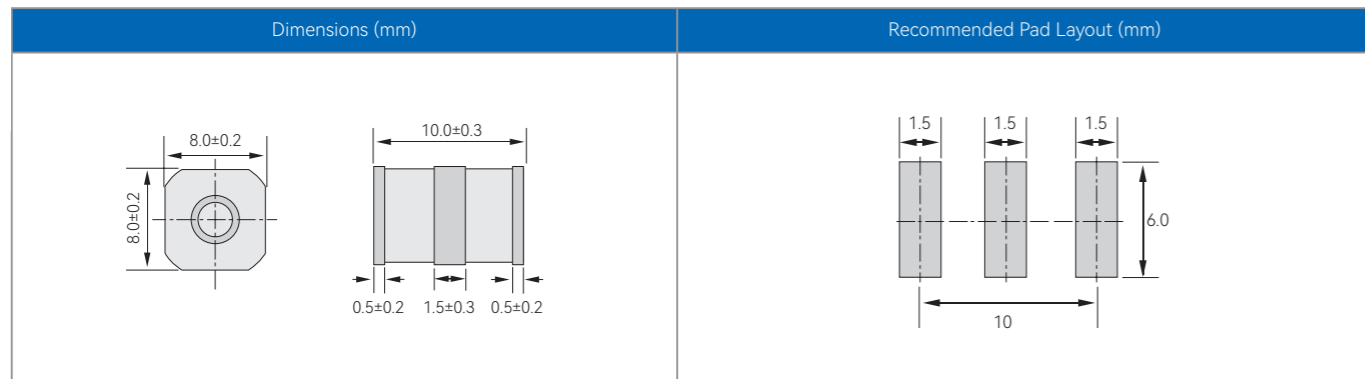
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
		Max	Max					+5 times	1 time		
		V	V					V	GΩ	pF	V
3RA-5SS Series Gas Discharge Tubes											
3R075A-5SS	75±20%	500	600	1	1	60	10	5	10	5	200
3R090A-5SS	90±20%	500	600	1	1	60	10	5	10	5	200
3R150A-5SS	150±20%	500	600	1	1	60	10	5	10	5	200
3R200A-5SS	200±20%	600	700	1	1	60	10	5	10	5	200
3R230A-5SS	230±20%	600	700	1	1	60	10	5	10	5	200
3R250A-5SS	250±20%	600	700	1	1	60	10	5	10	5	200
3R350A-5SS	350±20%	800	900	1	1	60	10	5	10	5	200
3R400A-5SS	400±20%	850	950	1	1	135	15	5	10	5	200
3R420A-5SS	420±20%	850	950	1	1	135	15	5	10	5	200
3R470A-5SS	470±20%	900	1000	1	1	135	15	5	10	5	200
3R600A-5SS	600±20%	1100	1200	1	1	135	15	5	10	5	200
3R800A-5SS	800±20%	1400	1500	1	1	135	15	5	10	5	200



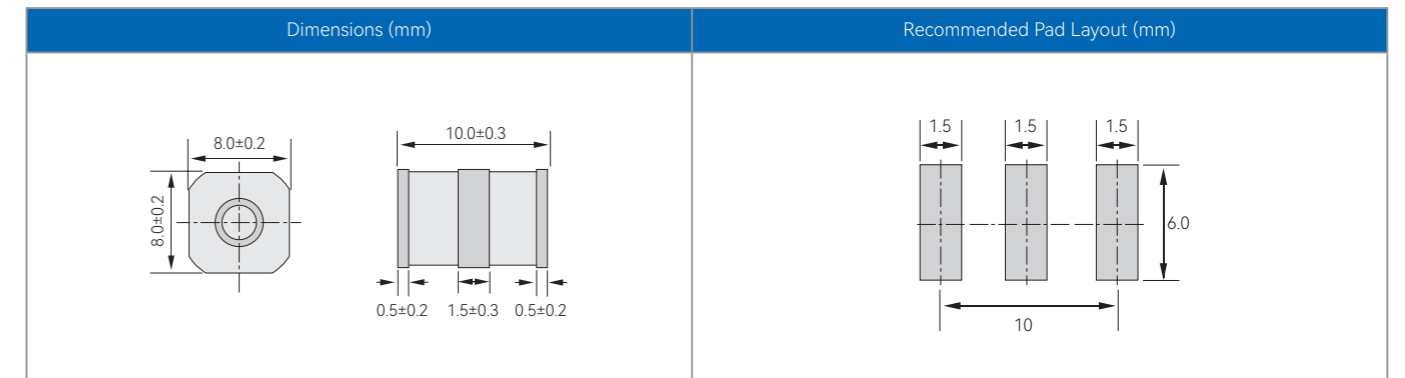
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
		Max	Max					+5 times	1 time		
		V	V					V	GΩ	pF	V
3RB-5SS Series Gas Discharge Tubes											
3R075B-5SS	75±20%	500	600	1	1	60	10	10	12	10	200
3R090B-5SS	90±20%	500	600	1	1	60	10	10	12	10	200
3R150B-5SS	150±20%	500	600	1	1	60	10	10	12	10	200
3R200B-5SS	200±20%	600	700	1	1	60	10	10	12	10	200
3R230B-5SS	230±20%	600	700	1	1	60	10	10	12	10	200
3R250B-5SS	250±20%	600	700	1	1	60	10	10	12	10	200
3R350B-5SS	350±20%	800	900	1	1	60	10	10	12	10	200
3R400B-5SS	400±20%	850	950	1	1	60	10	10	12	10	200
3R420B-5SS	420±20%	850	950	1	1	60	10	10	12	10	200
3R470B-5SS	470±20%	900	1000	1	1	60	10	10	12	10	200



Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
		Max	Max					±5 times	1 time	10 times	300 times
		V	V					KA	KA	A	A
3RB-8S Series Gas Discharge Tubes											
3R075SB-8S	75±20%	500	600	1	1.5	60	10	10	20	10	200
3R090SB-8S	90±20%	500	600	1	1.5	60	10	10	20	10	200
3R150SB-8S	150±20%	500	600	1	1.5	60	10	10	20	10	200
3R230SB-8S	230±20%	600	700	1	1.5	60	10	10	20	10	200
3R250SB-8S	250±20%	600	700	1	1.5	60	10	10	20	10	200
3R350SB-8S	350±20%	800	900	1	1.5	60	10	10	20	10	200
3R420SB-8S	420±20%	850	950	1	1.5	60	10	10	20	10	200
3R470SB-8S	470±20%	900	1000	1	1.5	135	15	10	20	10	200
3R600SB-8S	600±20%	1100	1200	1	1.5	135	15	10	20	10	200
3R800SB-8S	800±20%	1200	1400	1	1.5	135	15	10	20	10	200

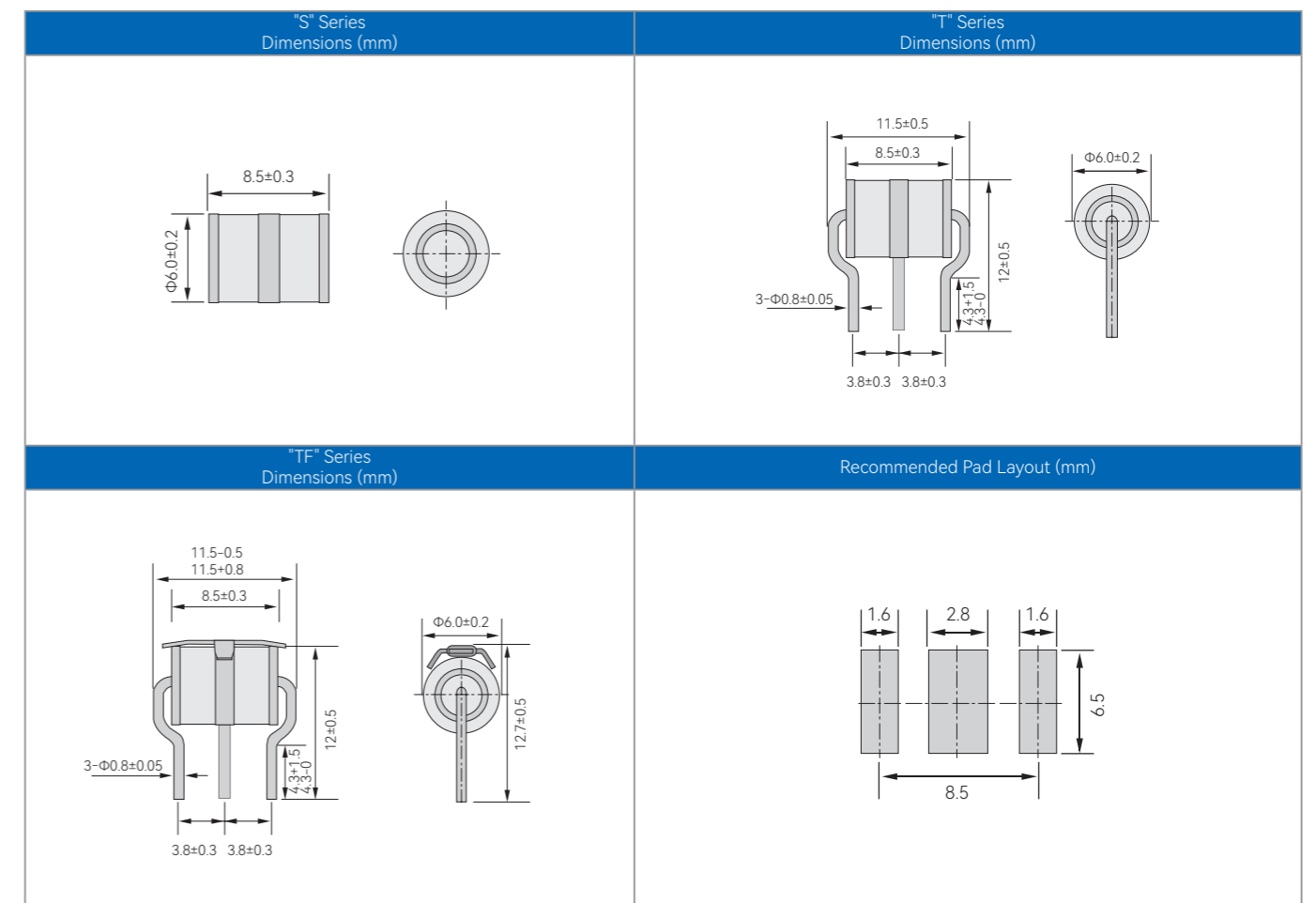
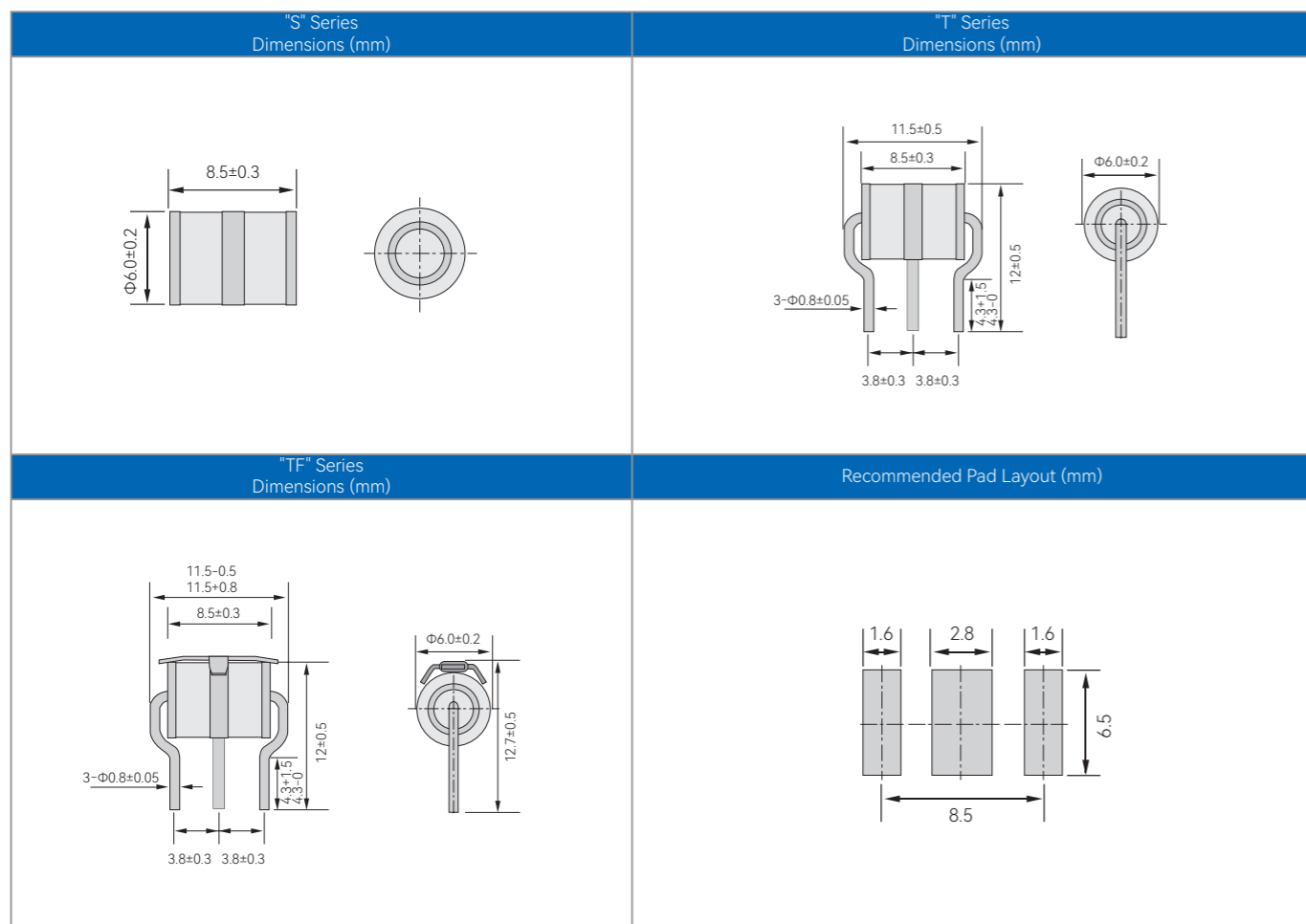


Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	Life Ratings			
		100V/μS	1KV/μS					Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
		Max	Max					±5 times	1 time	10 times	300 times
		V	V					KA	KA	A	A
3RD-8S Series Gas Discharge Tubes											
3R075SD-8S	75±20%	500	600	1	1.5	60	10	20	25	20	200
3R090SD-8S	90±20%	500	600	1	1.5	60	10	20	25	20	200
3R150SD-8S	150±20%	500	600	1	1.5	60	10	20	25	20	200
3R230SD-8S	230±20%	600	700	1	1.5	60	10	20	25	20	200
3R250SD-8S	250±20%	600	700	1	1.5	60	10	20	25	20	200
3R350SD-8S	350±20%	800	900	1	1.5	60	10	20	25	20	200
3R420SD-8S	420±20%	850	950	1	1.5	60	10	20	25	20	200
3R470SD-8S	470±20%	900	1000	1	1.5	60	10	20	25	20	200
3R600SD-8S	600±20%	1100	1200	1	1.5	60	10	20	25	20	200



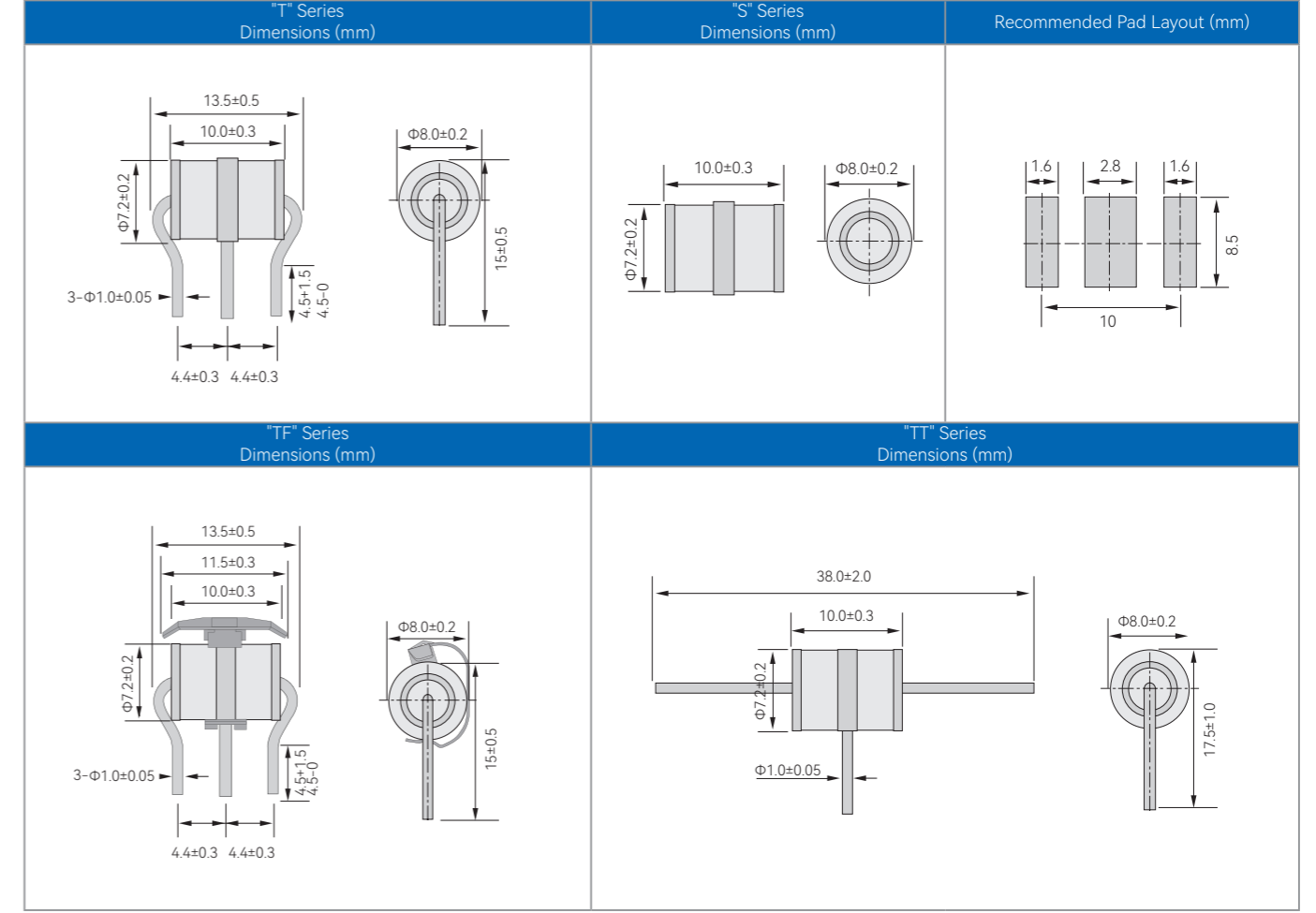
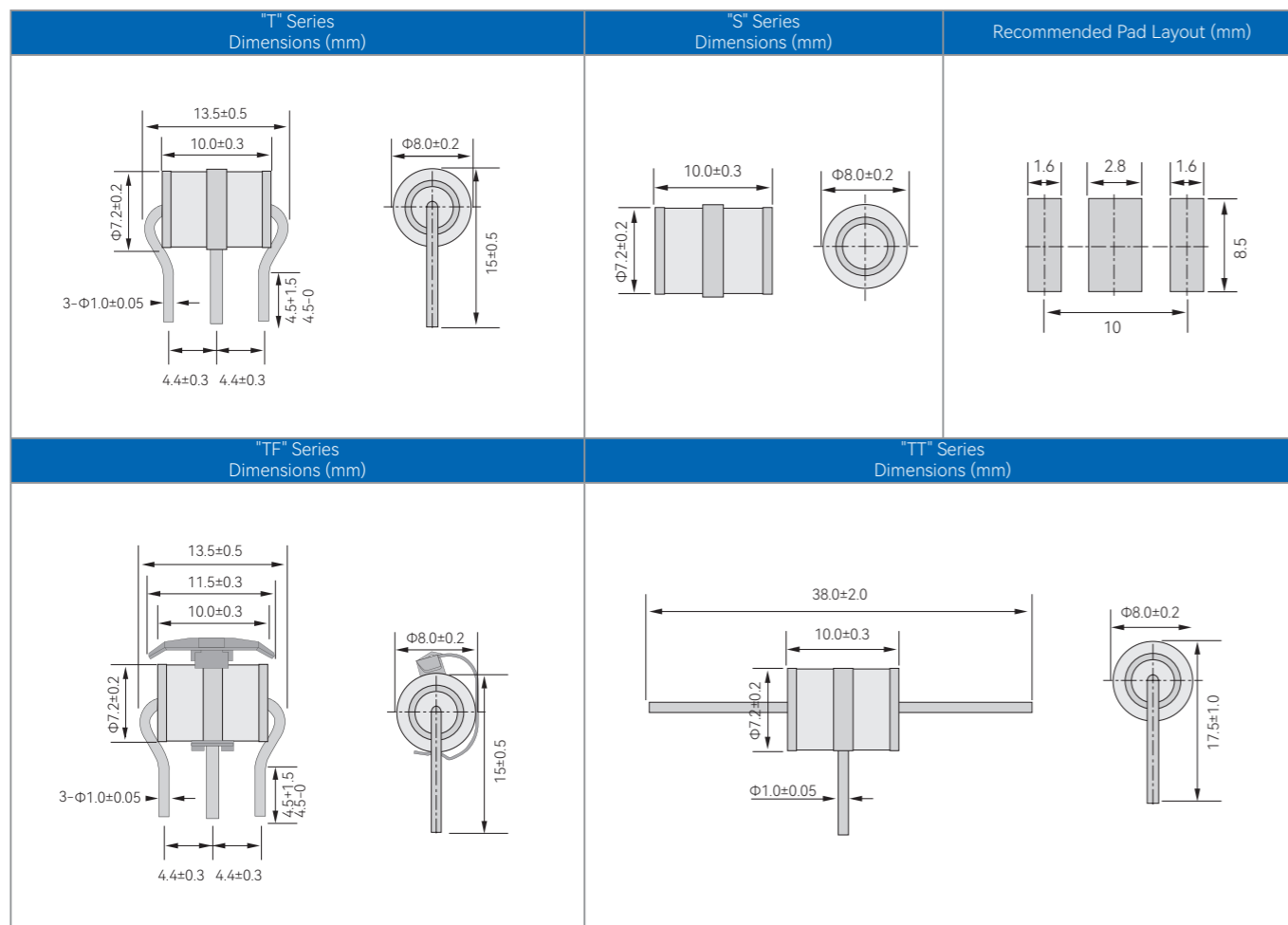
Part Number			DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Life Ratings			
				100V/ μ S	1KV/ μ S			Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
				Max	Max			Min	Max	+5 times	1 time
DIP	SMD	DIP-F	V	V	V	GQ	pF	KA	KA	A	A
3RA-6 Series Gas Discharge Tubes											
3R070TA-6	3R070SA-6	3R070TA-6F	70±20%	500	600	1	1.5	5	10	5	100
3R075TA-6	3R075SA-6	3R075TA-6F	75±20%	500	600	1	1.5	5	10	5	100
3R090TA-6	3R090SA-6	3R090TA-6F	90±20%	750	850	1	1.5	5	10	5	100
3R150TA-6	3R150SA-6	3R150TA-6F	150±20%	750	850	1	1.5	5	10	5	100
3R230TA-6	3R230SA-6	3R230TA-6F	230±20%	600	700	1	1.5	5	10	5	100
3R250TA-6	3R250SA-6	3R250TA-6F	250±20%	600	700	1	1.5	5	10	5	100
3R300TA-6	3R300SA-6	3R300TA-6F	300±20%	700	900	1	1.5	5	10	5	100
3R350TA-6	3R350SA-6	3R350TA-6F	350±20%	700	900	1	1.5	5	10	5	100
3R400TA-6	3R400SA-6	3R400TA-6F	400±20%	800	1000	1	1.5	5	10	5	100
3R470TA-6	3R470SA-6	3R470TA-6F	470±20%	900	1100	1	1.5	5	10	5	100
3R600TA-6	3R600SA-6	3R600TA-6F	600±20%	1100	1300	1	1.5	5	10	5	100
3R800TA-6	3R800SA-6	3R800TA-6F	800±20%	1300	1500	1	1.5	5	10	5	100

Part Number			DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Life Ratings			
				100V/ μ S	1KV/ μ S			Impulse Discharge Current@8/20 μ S		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000 μ S
				Max	Max			Min	Max	+5 times	1 time
DIP	SMD	DIP-F	V	V	V	GQ	pF	KA	KA	A	A
3RB-6 Series Gas Discharge Tubes											
3R070TB-6	3R070SB-6	3R070TB-6F	70±20%	500	600	1	1.5	10	15	10	100
3R075TB-6	3R075SB-6	3R075TB-6F	75±20%	500	600	1	1.5	10	15	10	100
3R090TB-6	3R090SB-6	3R090TB-6F	90±20%	750	850	1	1.5	10	15	10	100
3R150TB-6	3R150SB-6	3R150TB-6F	150±20%	750	850	1	1.5	10	15	10	100
3R230TB-6	3R230SB-6	3R230TB-6F	230±20%	600	700	1	1.5	10	15	10	100
3R250TB-6	3R250SB-6	3R250TB-6F	250±20%	600	700	1	1.5	10	15	10	100
3R300TB-6	3R300SB-6	3R300TB-6F	300±20%	700	900	1	1.5	10	15	10	100
3R350TB-6	3R350SB-6	3R350TB-6F	350±20%	700	900	1	1.5	10	15	10	100
3R400TB-6	3R400SB-6	3R400TB-6F	400±20%	800	1000	1	1.5	10	15	10	100
3R470TB-6	3R470SB-6	3R470TB-6F	470±20%	900	1100	1	1.5	10	15	10	100
3R600TB-6	3R600SB-6	3R600TB-6F	600±20%	1100	1300	1	1.5	10	15	10	100

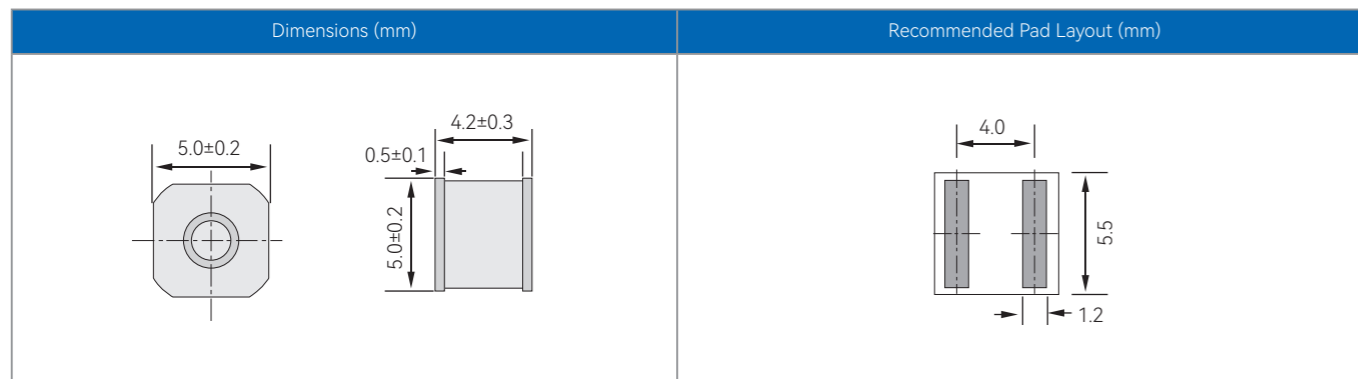


Part Number			DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Life Ratings			
				100V/μS	1KV/μS			Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
				Max	Max			±5 times	1 time		
DIP	DIP-F	DIP-T	V	V	V	GΩ	μF	KA	KA	A	A
3RB-8 Series Gas Discharge Tubes											
3R075TB-8	3R075TB-8F	3R075TB-8T	75±20%	500	600	1	1.5	10	20	10	200
3R090TB-8	3R090TB-8F	3R090TB-8T	90±20%	500	600	1	1.5	10	20	10	200
3R150TB-8	3R150TB-8F	3R150TB-8T	150±20%	500	600	1	1.5	10	20	10	200
3R200TB-8	3R200TB-8F	3R200TB-8T	200±20%	600	700	1	1.5	10	20	10	200
3R230TB-8	3R230TB-8F	3R230TB-8T	230±20%	600	700	1	1.5	10	20	10	200
3R250TB-8	3R250TB-8F	3R250TB-8T	250±20%	600	700	1	1.5	10	20	10	200
3R350TB-8	3R350TB-8F	3R350TB-8T	350±20%	800	900	1	1.5	10	20	10	200
3R400TB-8	3R400TB-8F	3R400TB-8T	400±20%	850	950	1	1.5	10	20	10	200
3R420TB-8	3R420TB-8F	3R420TB-8T	420±20%	850	950	1	1.5	10	20	10	200
3R470TB-8	3R470TB-8F	3R470TB-8T	470±20%	900	1000	1	1.5	10	20	10	200
3R600TB-8	3R600TB-8F	3R600TB-8T	600±20%	1100	1200	1	1.5	10	20	10	200
3R800TB-8	3R800TB-8F	3R800TB-8T	800±20%	1400	1500	1	1.5	10	20	10	200

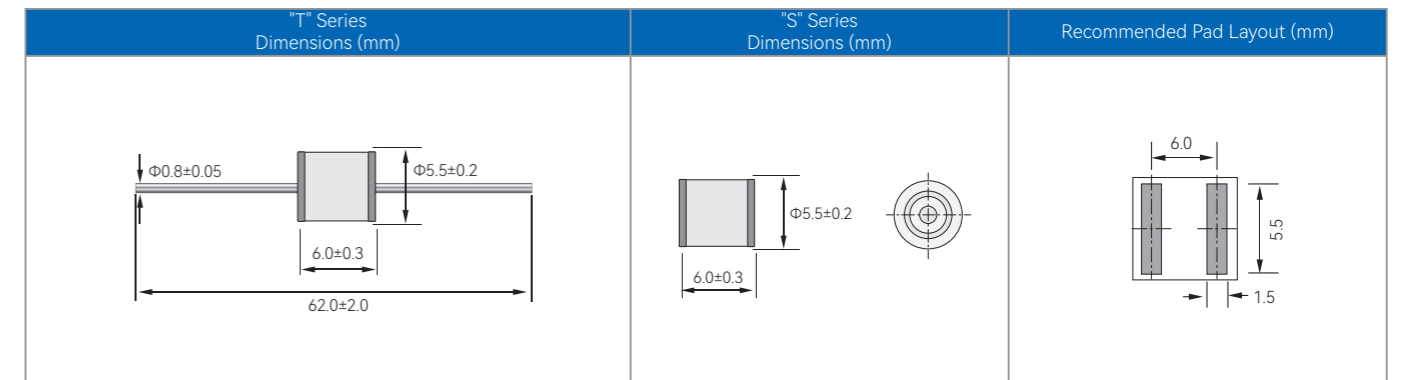
Part Number			DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Life Ratings			
				100V/μS	1KV/μS			Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S	Impulse Life @10/1000μS
				Max	Max			±5 times	1 time		
DIP	DIP-F	DIP-T	V	V	V	GΩ	μF	KA	KA	A	A
3RD-8 Series Gas Discharge Tubes											
3R075TD-8	3R075TD-8F	3R075TD-8T	75±20%	500	600	1	1.5	20	25	20	200
3R090TD-8	3R090TD-8F	3R090TD-8T	90±20%	500	600	1	1.5	20	25	20	200
3R150TD-8	3R150TD-8F	3R150TD-8T	150±20%	500	600	1	1.5	20	25	20	200
3R200TD-8	3R200TD-8F	3R200TD-8T	200±20%	600	700	1	1.5	20	25	20	200
3R230TD-8	3R230TD-8F	3R230TD-8T	230±20%	600	700	1	1.5	20	25	20	200
3R250TD-8	3R250TD-8F	3R250TD-8T	250±20%	600	700	1	1.5	20	25	20	200
3R350TD-8	3R350TD-8F	3R350TD-8T	350±20%	800	900	1	1.5	20	25	20	200
3R400TD-8	3R400TD-8F	3R400TD-8T	400±20%	850	950	1	1.5	20	25	20	200
3R420TD-8	3R420TD-8F	3R420TD-8T	420±20%	850	950	1	1.5	20	25	20	200
3R470TD-8	3R470TD-8F	3R470TD-8T	470±20%	900	1000	1	1.5	20	25	20	200
3R600TD-8	3R600TD-8F	3R600TD-8T	600±20%	1100	1200	1	1.5	20	25	20	200
3R800TD-8	3R800TD-8F	3R800TD-8T	800±20%	1400	1500	1	1.5	20	25	20	200



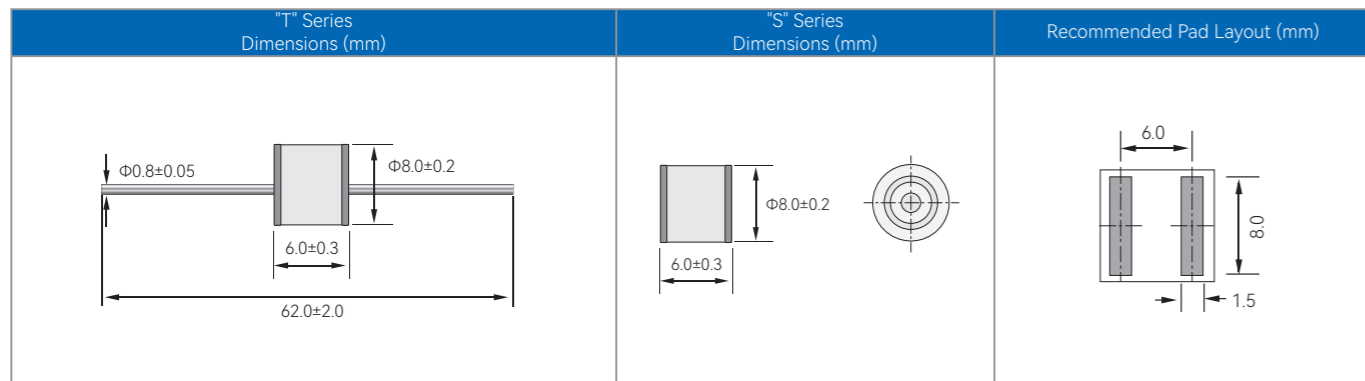
Part Number	DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	AC withstand voltage @5mA 1Min	Life Ratings		
		100V/μS	1KV/μS						Impulse Discharge Current @8/20μS		Alternating Discharge Current @50Hz 1S
		Max	Max						+5 times	1 time	5 times
		V	V						KA	KA	A
SMD5050 Series Gas Discharge Tubes											
SMD5050-1000	1000±20%	1500	1600	1	0.8	160	15	500	3	5	3
SMD5050-1200	1200±20%	1700	1800	1	0.8	160	15	600	3	5	3
SMD5050-1500	1500±20%	2300	2500	1	0.8	235	15	750	3	5	3
SMD5050-2000	2000±20%	3300	3500	1	0.8	260	20	1000	3	5	3
SMD5050-2500	2500±20%	3800	4000	1	0.8	260	20	1300	3	5	3
SMD5050-2700	2300~3240	4000	4200	1	0.8	260	20	1500	3	5	3
SMD5050-3000	3000±20%	4300	4500	1	0.8	260	20	1600	3	5	3
SMD5050-3600	3600±20%	4800	5000	1	0.8	260	20	1900	3	5	3



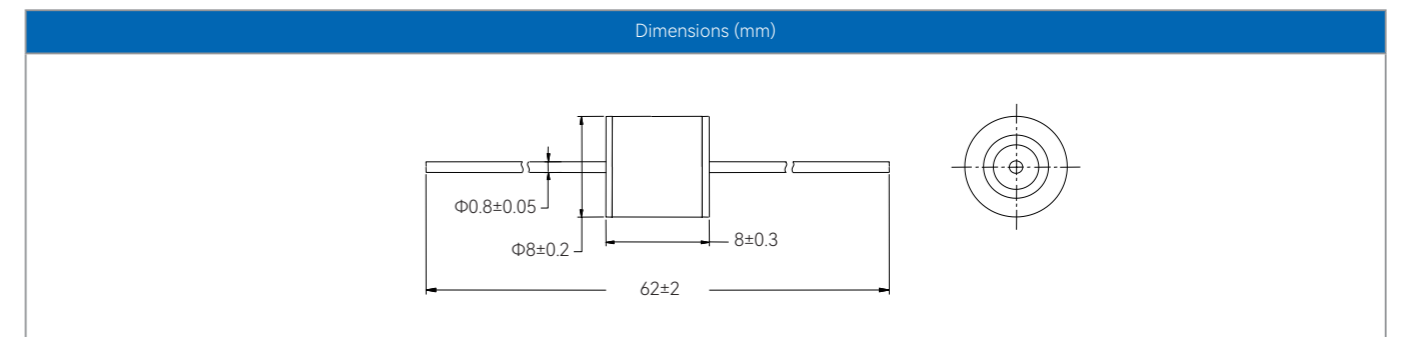
Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	AC withstand voltage @5mA 1Min	Life Ratings		
			100V/μS	1KV/μS						Impulse Discharge Current @8/20μS		Alternating Discharge Current @50Hz 1S
			Max	Max						+5 times	1 time	10 times
			V	V						KA	KA	A
2R-5 Series Gas Discharge Tubes												
2R1000T-5	2R1000S-5	1000±20%	1500	1600	1	1	150	15	500	5	10	2
2R1200T-5	2R1200S-5	1200±20%	1700	1800	1	1	150	15	600	5	10	2
2R1400T-5	2R1400S-5	1400±20%	2100	2200	1	1	170	18	700	5	10	2
2R1500T-5	2R1500S-5	1500±20%	2300	2500	1	1	170	18	750	5	10	2
2R1600T-5	2R1600S-5	1600±20%	2600	2800	1	1	170	18	800	5	10	2
2R2000T-5	2R2000S-5	2000±20%	3300	3500	1	1	260	30	1000	3	5	1
2R2500T-5	2R2500S-5	2500±20%	3800	4000	1	1	260	30	1300	3	5	1
2R2700T-5	2R2700S-5	2300~3240	4000	4200	1	1	260	30	1500	3	5	1
2R3000T-5	2R3000S-5	3000±20%	4300	4500	1	1	260	30	1600	3	5	1
2R3500T-5	2R3500S-5	3500±20%	4600	4800	1	1	260	30	1800	3	5	1
2R3600T-5	2R3600S-5	3600±20%	4800	5000	1	1	260	30	1900	3	5	1
2R4000T-5	2R4000S-5	4000±20%	5800	6000	1	1	260	35	2100	3	5	1
2R4500T-5	2R4500S-5	4500±20%	6300	6500	1	1	260	35	2300	3	5	1



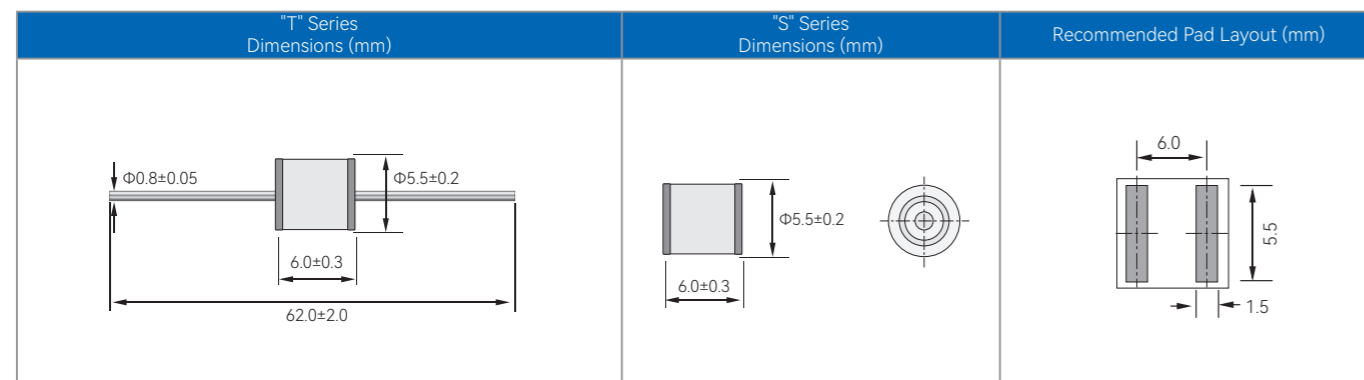
Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	AC withstand voltage @5mA 1Min	Life Ratings		
			100V/μS	1KV/μS						Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S
			Max	Max						±5 times	1 time	
DIP	SMD	V	V	V	GΩ	pF	V	V	V	KA	KA	A
2R-8 Series Gas Discharge Tubes												
2R1000T-8	2R1000S-8	1000±20%	1400	1500	1	1.5	160	15	500	10	15	5
2R1200T-8	2R1200S-8	1200±20%	1700	1800	1	1.5	160	15	600	10	15	5
2R1400T-8	2R1400S-8	1400±20%	1900	2000	1	1.5	235	18	700	10	15	5
2R1500T-8	2R1500S-8	1500±20%	2100	2300	1	1.5	235	18	750	10	15	5
2R1600T-8	2R1600S-8	1600±20%	2300	2500	1	1.5	235	18	800	10	15	5
2R1800T-8	2R1800S-8	1800±20%	2600	2800	1	1.5	235	18	900	10	15	5
2R2000T-8	2R2000S-8	2000±20%	2800	3000	1	1.5	235	18	1000	5	10	2.5
2R2400T-8	2R2400S-8	2400±20%	3500	3700	1	1.5	260	30	1200	5	10	2.5
2R2500T-8	2R2500S-8	2500±20%	3600	3800	1	1.5	260	30	1300	5	10	2.5
2R2700T-8	2R2700S-8	2300~3240	3700	3900	1	1.5	260	30	1500	5	10	2.5
2R3000T-8	2R3000S-8	3000±20%	3800	4000	1	1.5	260	30	1600	5	10	2.5
2R3500T-8	2R3500S-8	3500±20%	4300	4500	1	1.5	260	30	1800	5	10	2.5
2R3600T-8	2R3600S-8	3600±20%	4400	4600	1	1.5	260	30	1900	5	10	2.5
2R4000T-8	2R4000S-8	4000±20%	4800	5000	1	1.5	280	35	2100	5	10	2.5
2R4500T-8	2R4500S-8	4500±20%	5800	6000	1	1.5	280	35	2300	5	10	2.5



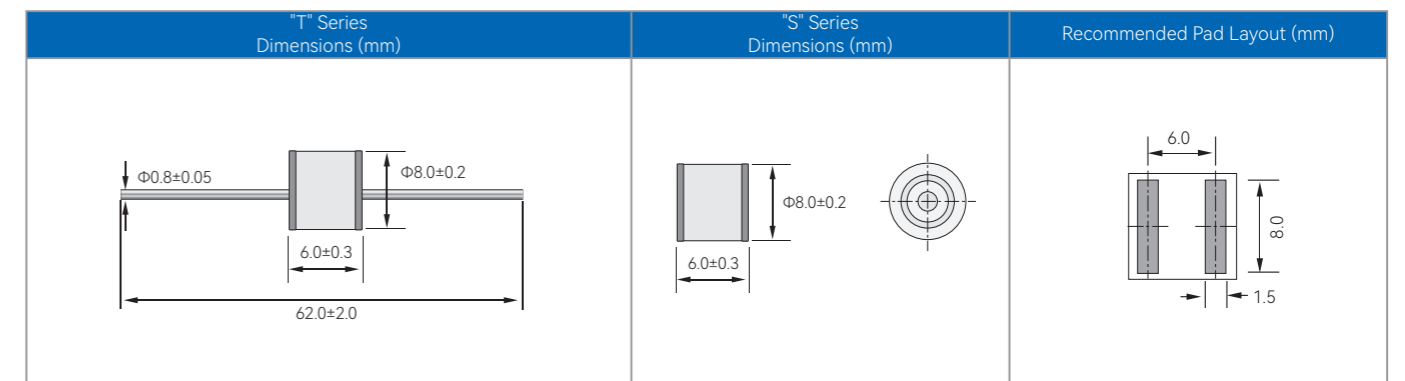
Part Number		DC Spark-over Voltage @100V/S	Impulse Spark-over Voltage		Insulation Resistance	Capacitance @1MHz	Glow Voltage @10mA	Arc Voltage @1A	AC withstand voltage @5mA 1Min	Life Ratings		
			100V/μS	1KV/μS						Impulse Discharge Current@8/20μS		Alternating Discharge Current @50Hz 1S
			Max	Max						±5 times	1 time	
V	V	V	GΩ	pF	V	V	V	KA	KA	A		
2R-8T(800~6300V) Series Gas Discharge Tubes												
2R800TB-8T	2R800SB-8T	800±20%	1300	1400	1	1	160	20	-	10	15	10
2R1000T-8T	2R1000S-8T	1000±20%	1500	1600	1	1	160	20	500	10	15	10
2R1200T-8T	2R1200S-8T	1200±20%	1700	1800	1	1	160	20	600	10	15	10
2R1400T-8T	2R1400S-8T	1400±20%	2100	2200	1	1	160	20	700	10	15	10
2R1500T-8T	2R1500S-8T	1500±20%	2300	2500	1	1	160	20	750	10	15	10
2R1600T-8T	2R1600S-8T	1600±20%	2600	2800	1	1	160	20	800	5	10	5
2R2000T-8T	2R2000S-8T	2000±20%	2800	3000	1	1	160	20	1000	5	10	5
2R2500T-8T	2R2500S-8T	2500±20%	3000	3200	1	1	160	20	1300	5	10	5
2R2700T-8T	2R2700S-8T	2300~3240	3300	3500	1	1	160	20	1500	5	10	5
2R3000T-8T	2R3000S-8T	3000±20%	3600	3800	1	1	160	20	1600	5	10	5
2R3500T-8T	2R3500S-8T	3500±20%	4300	4400	1	1	160	20	1800	5	10	5
2R3600T-8T	2R3600S-8T	3600±20%	4300	4500	1	1	160	20	1900	5	10	5
2R4000T-8T	2R4000S-8T	4000±20%	4800	5000	1	1	160	20	2100	5	10	5
2R4500T-8T	2R4500S-8T	4500±20%	5800	6000	1	1	160	20	2300	5	10	5
2R5000T-8T	2R5000S-8T	5000±20%	6300	6500	1	1	180	20	2600	5	10	5
2R5500T-8T	2R5500S-8T	5500±20%	6500	7000	1	1	180	20	2900	5	10	5
2R6000T-8T	2R6000S-8T	6000±20%	7000	7500	1	1	180	20	3100	5	10	5
2R6200T-8T	2R6200S-8T	5270~7440	7500	8000	1	1	180	20	3400	5	10	5
2R6300T-8T	2R6300S-8T	5335~7560	7500	8000	1	1	180	20	3500	5	10	5

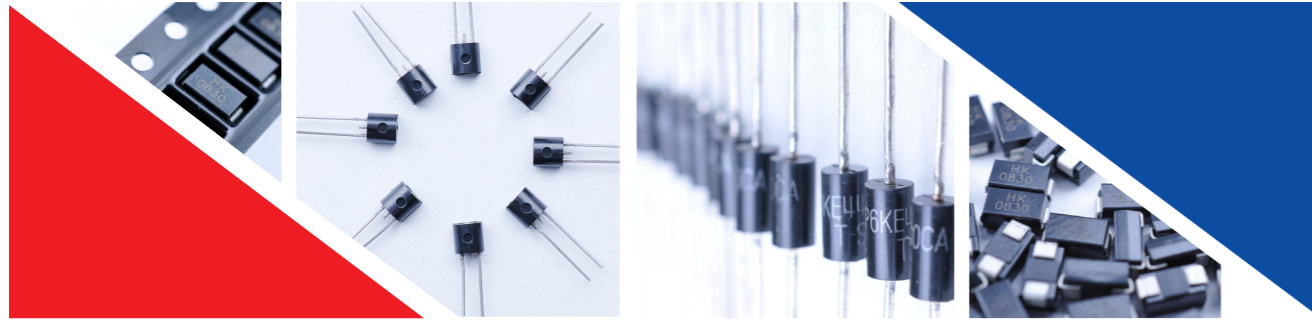


Part Number	DIP	2R230TK-5	2R250TK-5	2R300TK-5	2R350TK-5	2R380TK-5	2R400TK-5
	SMD	2R230SK-5	2R250SK-5	2R300SK-5	2R350SK-5	2R380SK-5	2R400SK-5
Initial Values							
Static Breakdown Voltage VS @100V/S		<275 V	<300 V	<360 V	<420 V	<460 V	<480 V
First ignition Value after 24 hours in darkness		207~253 V	225~275 V	270~330 V	315~385 V	350~420 V	360~440 V
Following Ignition Values							
Electrical Life Time							
Breakdown Voltage VB							
First ignition Value after 24 hours in darkness		<285 V 196~265 V	<310 V	<370V	<435V	<460 V	<500 V
Following Ignition Values			215~290 V	255~350 V	300~405 V	330~440 V	340~460 V
Switching Operations @ +25° C		10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Breakdown Time		<50 ns	<50 ns	<50 ns	<50 ns	<50 ns	<50 ns
Maximum Switching Frequency		100 Hz	100 Hz	200 Hz	200 Hz	200 Hz	200 Hz
Test Circuit Parameters							
Open Circuit Voltage V0		230 VAC	350 V	400 V	450 V	500 V	520 V
Loading Resistance R		15 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ
Discharge Capacitance C		2.2 μF	680 nF	680 nF	680 nF	680 nF	680 nF
Inductance L		10 μH	0.5 μH	0.5 μH	0.5 μH	0.5 μH	0.5 μH
Discharge Peak Current IP		~300 A	~500 A	~500 A	~500 A	~500 A	~500 A
Part Number	DIP	2R450TK-5	2R470TK-5	2R500TK-5	2R550TK-5	2R600TK-5	
	SMD	2R450SK-5	2R470SK-5	2R500SK-5	2R550SK-5	2R600SK-5	
Initial Values							
Static Breakdown Voltage VS @100V/S		<540 V	<560 V	<600 V	<680 V	<720 V	
First ignition Value after 24 hours in darkness		405~495 V	423~517 V	450~550 V	510~630 V	540~660 V	
Following Ignition Values							
Electrical Life Time							
Breakdown Voltage VB							
First ignition Value after 24 hours in darkness		<560 V	<585V	<625 V	<710 V	<750 V	
Following Ignition Values		385~515 V	400~540 V	425~575 V	485~655 V	510~690 V	
Switching Operations @ +25° C		105	105	105	105	105	
Breakdown Time		<50 ns	<50 ns	<50 ns	<50 ns	<50 ns	
Maximum Switching Frequency		200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	
Test Circuit Parameters							
Open Circuit Voltage V0		580 V	600 V	630 V	720 V	750 V	
Loading Resistance R		10 KΩ	10 KΩ	13 KΩ	13 KΩ	13 KΩ	
Discharge Capacitance C		680 nF	680 nF	470 nF	470 nF	470 nF	
Inductance L		0.5 μH	0.5 μH	0.1 μH	0.1 μH	0.1 μH	
Discharge Peak Current IP		~500 A	~500 A	~600 A	~600 A	~600 A	



Part Number	DIP	2R230TK-8	2R250TK-8	2R300TK-8	2R350TK-8	2R380TK-8	2R400TK-8	2R450TK-8
	SMD	2R230SK-8	2R250SK-8	2R300SK-8	2R350SK-8	2R380SK-8	2R400SK-8	2R450SK-8
Initial Values								
Static Breakdown Voltage VS @100V/S		<275 V	<300 V	<360 V	<420 V	<460 V	<470 V	<540 V
First ignition Value after 24 hours in darkness		207~253 V	225~275 V	270~330 V	315~385 V	350~420 V	360~440 V	405~495 V
Following Ignition Values								
Electrical Life Time								
Breakdown Voltage VB								
First ignition Value after 24 hours in darkness		<285 V 196~265 V	<310 V 215~290 V	<370 V 255~350 V	<435 V 300~405 V	<460 V 330~440 V	<500 V 340~460 V	<560 V 385~515 V
Following Ignition Values								
Switching Operations @ +25° C		2×10 ⁵	2×10 ⁵	2×10 ⁵	2×10 ⁵	2×10 ⁵	2×10 ⁵	2×10 ⁵
Breakdown Time		<50 ns	<50 ns	<50 ns	<50 ns	<50 ns	<50 ns	<50 ns
Maximum Switching Frequency		100 Hz	100 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz
Test Circuit Parameters								
Open Circuit Voltage V0		230 VAC	350 V	400 V	450 V	500 V	520 V	580 V
Loading Resistance R		15 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ
Discharge Capacitance C		2.2 μF	680 nF	680 nF	680 nF	680 nF	680 nF	680 nF
Inductance L		10 μH	0.5 μH	0.5 μH	0.5 μH	0.5 μH	0.5 μH	0.5 μH
Discharge Peak Current IP		~300 A	~500 A	~500 A	~500 A	~500 A	~500 A	~500 A
Part Number	DIP	2R470TK-8	2R500TK-8	2R550TK-8	2R600TK-8	2R630TK-8	2R750TK-8	2R800TK-8
	SMD	2R470SK-8	2R500SK-8	2R550SK-8	2R600SK-8	2R630SK-8	2R750SK-8	2R800SK-8
Initial Values								
Static Breakdown Voltage VS @100V/S		<560 V	<600 V	<680 V	<720 V	<750 V	<860 V	<950 V
First ignition Value after 24 hours in darkness		423~517 V	450~550 V	510~630 V	540~660 V	585~685 V	690~790 V	720~880 V
Following Ignition Values								
Electrical Life Time								
Breakdown Voltage VB								
First ignition Value after 24 hours in darkness		<585V	<625 V	<710 V	<750 V	<780 V	<920 V	<1000 V
Following Ignition Values		400~540 V	425~575 V	485~655 V	510~690 V	540~720 V	630~850 V	680~920 V
Switching Operations @ +25° C		2×10 ⁵	2×10 ⁵	2×10 ⁵	2×10 ⁵	2×10 ⁵	10 ⁵	10 ⁵
Breakdown Time		<50 ns	<50 ns	<50 ns	<50 ns	<50 ns	<50 ns	<50 ns
Maximum Switching Frequency		200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz
Test Circuit Parameters								
Open Circuit Voltage V0		600 V	630 V	720 V	750 V	780 V	920 V	1000 V
Loading Resistance R		10 KΩ	13 KΩ	13 KΩ	13 KΩ	13 KΩ	68 KΩ	68 KΩ
Discharge Capacitance C		680 nF	470 nF	470 nF	470 nF	470 nF	100 nF	100 nF
Inductance L		0.5 μH	0.1 μH	0.1 μH	0.1 μH	0.1 μH	0.5 μH	0.5 μH
Discharge Peak Current IP		~500 A	~600 A	~600 A	~600 A	~600 A	~400 A	~400 A





半导体放电管 Thyristor Surge Suppressors (TSS)

PxxxTA Series	6~440V	10/700μS	2KV SMA	35
TPAxxx Series	180~275V	10/700μS	2KV DO-15	36
PxxxSA Series	6~400V	10/700μS	2KV SMB	37
PxxxSB Series	6~400V	10/700μS	4KV SMB	37
PxxxSC Series	6~400V	10/700μS	6KV SMB	37
PxxxLA Series	6~320V	10/700μS	2KV DO-15	39
PxxxLB Series	6~320V	10/700μS	4KV DO-15	39
PxxxLC Series	6~320V	10/700μS	6KV DO-15	39

产品特点 Features

精确导通，快速反应

Accurate over-voltage clamping with fast response times.

双向对称，可靠性高

Low capacitance with bi-directional capabilities.

响应速度快

Fast response speed.

超强的浪涌吸收能力

Strong surge capability.

应用范围 Application

通讯接口	安防产品	配线架	电话接口线卡	高频电路
Communication Interface	Security Products	Distribution Frame	Telephone interface/Line Cards	High-frequency Circuit

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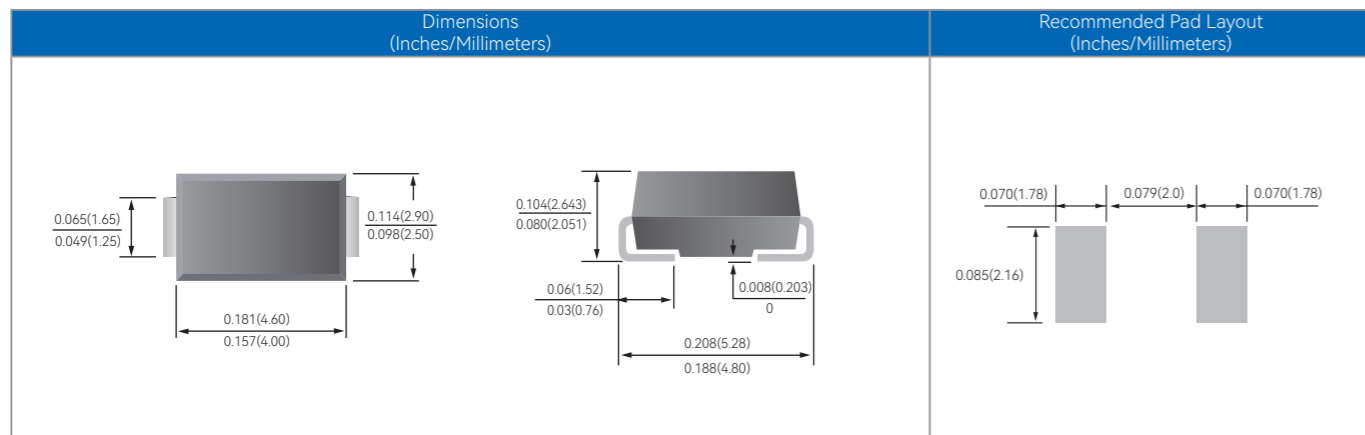
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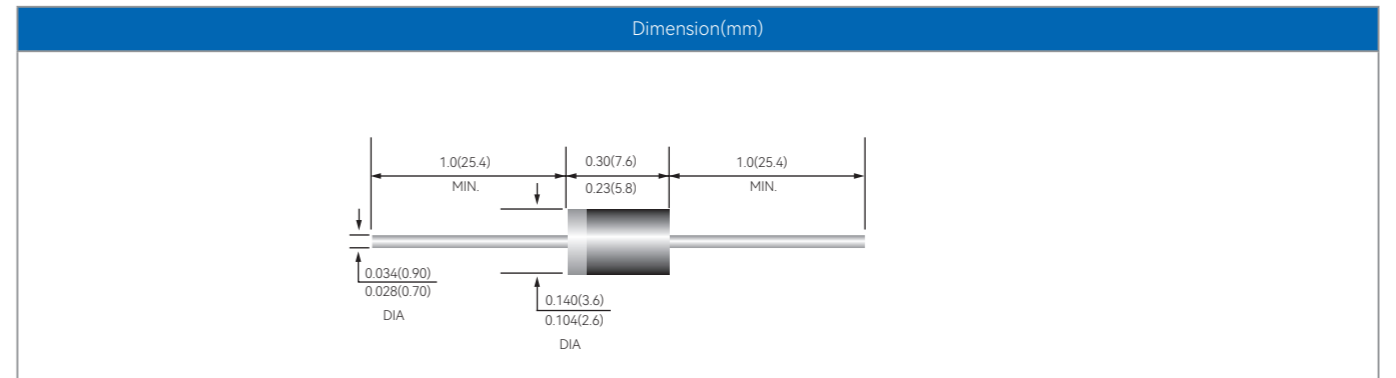
Type Number	V _{DRM}	V _S	V _T	I _{DRM}	I _S	I _T	I _H	C _J
	V	V	V	μA	mA	A	mA	pF
SMA/DO-214AC Series Thyristor Surge Suppressors								
P0080TA	6	25	4	5	800	2.2	50	45
P0300TA	25	40	4	5	800	2.2	50	45
P0640TA	58	77	4	5	800	2.2	150	35
P0720TA	65	88	4	5	800	2.2	150	50
P0900TA	75	98	4	5	800	2.2	150	40
P1100TA	90	130	4	5	800	2.2	150	45
P1300TA	120	160	4	5	800	2.2	150	45
P1500TA	140	180	4	5	800	2.2	150	40
P1800TA	170	220	4	5	800	2.2	150	40
P2000TA	180	220	4	5	800	2.2	150	40
P2300TA	190	260	4	5	800	2.2	150	45
P2600TA	220	300	4	5	800	2.2	150	35
P3100TA	275	350	4	5	800	2.2	150	35
P3500TA	320	400	4	5	800	2.2	150	30
P4000TA	360	460	4	5	800	2.2	150	20
P4500TA	400	540	4	5	800	2.2	150	20
P5000TA	440	600	4	5	800	2.2	150	20

Notes:
V_{DRM}: Peak Off-state Voltage – maximum voltage that can be applied while maintaining off state
V_S: Switching Voltage – maximum voltage prior to switching to on state
I_H: Holding Current – minimum current required to maintain on state
I_S: Switching Current – maximum current required to switch to on state
I_T: On-state Current – maximum rated continuous on-state current
V_T: On-state Voltage – maximum voltage measured at rated on-state current
C_J: Off-state Capacitance – typical capacitance measured in off state
I_{DRM}: Leakage Current – maximum peak off-state current measured at V_{DRM}

SERIES	Peak Pulse Current-I _{pp} (A)				
	2/10μs	8/20μs	10/160μs	10/560μs	10/1000μs
A	200	150	90	50	45



Type Number	V _{DRM}	V _{BO}	V _T	I _S	I _T	I _H	CO	
	V	V	V	mA	A	mA	pF(Min)	pF(Max)
DO-15 Series Thyristor Surge Suppressors								
TPA180	180	240	5	800	2.2	150	50	100
TPA200	200	267	5	800	2.2	150	50	100
TPA220	220	293	5	800	2.2	150	50	100
TPA240	240	320	5	800	2.2	150	50	100
HP2600	220	300	5	800	2.2	150	50	100
HP3100	275	350	5	800	2.2	150	50	100

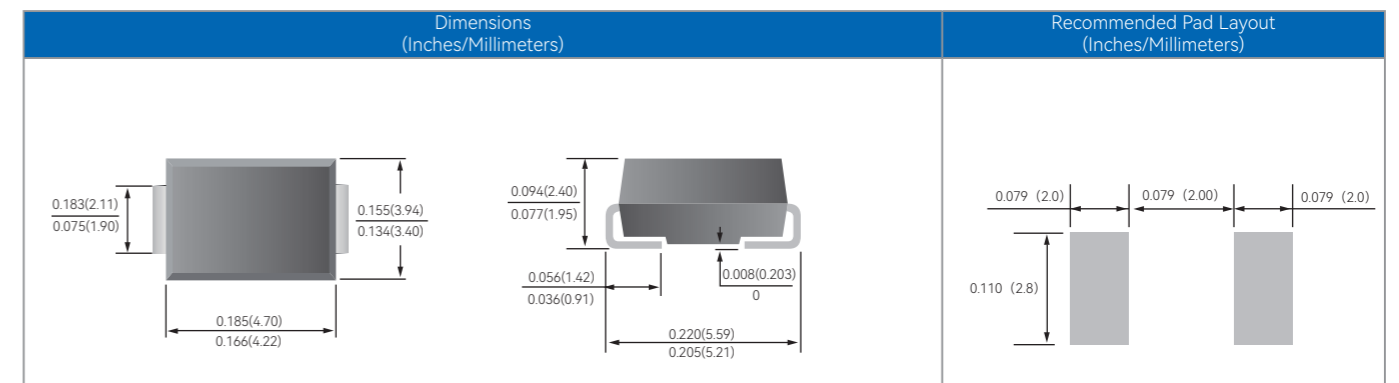


Type Number	V _{DRM}	V _S	V _T	I _{DRM}	I _S	I _T	I _H	C _J
	V	V	V	μA	mA	A	mA	pF
SMB/DO-214AA Series Thyristor Surge Suppressors								
P0080SA	6	25	4	5	800	2.2	150	45
P0080SB	6	25	4	5	800	2.2	150	60
P0080SC	6	25	4	5	800	2.2	150	75
P0300SA	25	40	4	5	800	2.2	150	45
P0300SB	25	40	4	5	800	2.2	150	65
P0300SC	25	40	4	5	800	2.2	150	75
P0640SA	58	77	4	5	800	2.2	150	35
P0640SB	58	77	4	5	800	2.2	150	45
P0640SC	58	77	4	5	800	2.2	150	55
P0720SA	65	88	4	5	800	2.2	150	50
P0720SB	65	88	4	5	800	2.2	150	45
P0720SC	65	88	4	5	800	2.2	150	60
P0900SA	75	98	4	5	800	2.2	150	40
P0900SB	75	98	4	5	800	2.2	150	40
P0900SC	75	98	4	5	800	2.2	150	65
P1100SA	90	130	4	5	800	2.2	150	35
P1100SB	90	130	4	5	800	2.2	150	40
P1100SC	90	130	4	5	800	2.2	150	55
P1300SA	120	160	4	5	800	2.2	150	35
P1300SB	120	160	4	5	800	2.2	150	40
P1300SC	120	160	4	5	800	2.2	150	90
P1500SA	140	180	4	5	800	2.2	150	40
P1500SB	140	180	4	5	800	2.2	150	35
P1500SC	140	180	4	5	800	2.2	150	50
P1800SB	170	220	4	5	800	2.2	150	65
P1800SC	170	220	4	5	800	2.2	150	55
P2000SA	180	220	4	5	800	2.2	150	40
P2000SB	180	220	4	5	800	2.2	150	60
P2000SC	180	220	4	5	800	2.2	150	85
P2300SA	190	260	4	5	800	2.2	150	45
P2300SB	190	260	4	5	800	2.2	150	60
P2300SC	190	260	4	5	800	2.2	150	65
P2600SA	220	300	4	5	800	2.2	150	35
P2600SB	220	300	4	5	800	2.2	150	45
P2600SC	220	300	4	5	800	2.2	150	65

Type Number	V _{DRM}	V _S	V _T	I _{DRM}	I _S	I _T	I _H	C _J
	V	V	V	μA	mA	A	mA	pF
SMB/DO-214AA Series Thyristor Surge Suppressors								
P3100SA	275	350	4	5	800	2.2	150	35
P3100SB	275	350	4	5	800	2.2	150	45
P3100SC	275	350	4	5	800	2.2	150	55
P3500SA	320	400	4	5	800	2.2	150	30
P3500SB	320	400	4	5	800	2.2	150	40
P3500SC	320	400	4	5	800	2.2	150	50

Notes:
V_{DRM}: Peak Off-state Voltage – maximum voltage that can be applied while maintaining off state
V_S: Switching Voltage – maximum voltage prior to switching to on state
I_H: Holding Current – minimum current required to maintain on state
I_S: Switching Current – maximum current required to switch to on state
I_T: On-state Current – maximum rated continuous on-state current
V_T: On-state Voltage – maximum voltage measured at rated on-state current
C_J: Off-state Capacitance – typical capacitance measured in off state
I_{DRM}: Leakage Current – maximum peak off-state current measured at V_{DRM}

Series	Peak Pulse Current-I _{pp} (A)				
	2/10μs	8/20μs	10/160μs	10/560μs	10/1000μs
A	200	150	100	60	50
B	250	250	150	100	80
C	500	400	200	120	100

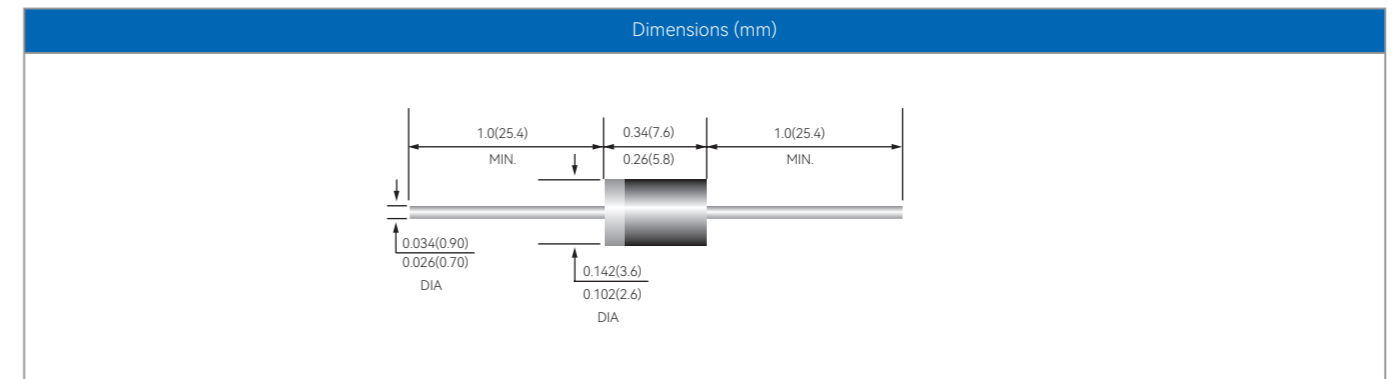


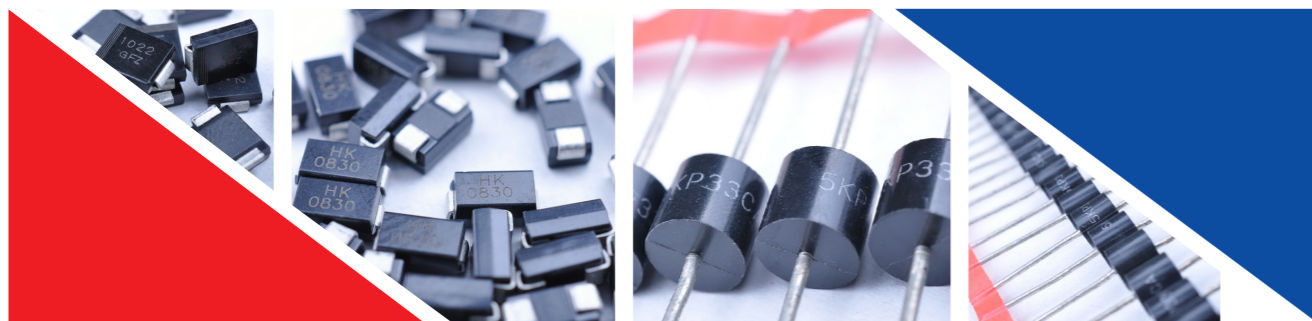
Type Number	IT	V _{DRM}	I _{Rmax}	VT	VBO	IS	I _{Hmin}	C _J
	A	V	μA	V	V	mA	mA	pF
DO-15 Series Thyristor Surge Suppressors								
P0080LA	6	5	25	50	800	2.2	4	45
P0080LB	6	5	25	50	800	2.2	4	85
P0080LC	6	5	25	50	800	2.2	4	260
P0300LA	25	5	40	50	800	2.2	4	45
P0300LB	25	5	40	50	800	2.2	4	85
P0300LC	25	5	40	50	800	2.2	4	250
P0640LA	58	5	77	150	800	2.2	4	35
P0640LB	58	5	77	150	800	2.2	4	60
P0640LC	58	5	77	150	800	2.2	4	155
P0720LA	65	5	88	150	800	2.2	4	50
P0720LB	65	5	88	150	800	2.2	4	60
P0720LC	65	5	88	150	800	2.2	4	60
P0900LA	75	5	98	150	800	2.2	4	40
P0900LB	75	5	98	150	800	2.2	4	55
P0900LC	75	5	98	150	800	2.2	4	140
P1100LA	90	5	130	150	800	2.2	4	35
P1100LB	90	5	130	150	800	2.2	4	55
P1100LC	90	5	130	150	800	2.2	4	115
P1300LA	120	5	160	150	800	2.2	4	35
P1300LB	120	5	160	150	800	2.2	4	55
P1300LC	120	5	160	150	800	2.2	4	105
P1500LA	140	5	180	150	800	2.2	4	40
P1500LB	140	5	180	150	800	2.2	4	60
P1500LC	140	5	180	150	800	2.2	4	95
P1800LA	170	5	220	150	800	2.2	4	40
P1800LB	170	5	220	150	800	2.2	4	60
P1800LC	170	5	220	150	800	2.2	4	90
P2000LA	180	5	220	150	800	2.2	4	40
P2000LB	180	5	220	150	800	2.2	4	60
P2000LC	180	5	220	150	800	2.2	4	85
P2300LA	190	5	260	150	800	2.2	4	45
P2300LB	190	5	260	150	800	2.2	4	55
P2300LC	190	5	260	150	800	2.2	4	80
P2600LA	220	5	300	150	800	2.2	4	35
P2600LB	220	5	300	150	800	2.2	4	50
P2600LC	220	5	300	150	800	2.2	4	80

Type Number	IT	V _{DRM}	I _{Rmax}	VT	VBO	IS	I _{Hmin}	C _J
	A	V	μA	V	V	mA	mA	pF
DO-15 Series Thyristor Surge Suppressors								
P3100LA	275	5	350	150	800	2.2	4	35
P3100LB	275	5	350	150	800	2.2	4	45
P3100LC	275	5	350	150	800	2.2	4	70
P3500LA	320	5	400	150	800	2.2	4	30
P3500LB	320	5	400	150	800	2.2	4	40
P3500LC	320	5	400	150	800	2.2	4	65

Notes:
V_{DRM}: Peak Off-state Voltage – maximum voltage that can be applied while maintaining off state
V_S: Switching Voltage – maximum voltage prior to switching to on state
I_H: Holding Current – minimum current required to maintain on state
I_S: Switching Current – maximum current required to switch to on state
I_T: On-state Current – maximum rated continuous on-state current
V_T: On-state Voltage – maximum voltage measured at rated on-state current
C_J: Off-state Capacitance – typical capacitance measured in off state
I_{DRM}: Leakage Current – maximum peak off-state current measured at V_{DRM}

Series	Peak Pulse Current-I _{pp} (A)				
	2/10μs	8/20μs	10/160μs	10/560μs	10/1000μs
A	200	150	100	60	50
B	250	250	150	100	80
C	500	400	200	120	100





产品特点 Features

限压型零件，反应速度快

Voltage clamping device with fast response time.

瞬态功率从200W至30,000W

Transient surge power from 200W to 30,000W

电压由3.3V至600V+，可为客户定制规格

Breakdown voltage from 3.3V to 600V.

功率多样性，能适应不同防护等级电路使用

Designed and manufacture TVS products to meet customer specifications.

应用范围 Application

家用电器	通讯设备	计算机系统	仪器仪表	高频电路
Household Appliances	Communications Equipment	The Computer System	Instrument and Meter	High-frequency Circuit

瞬态抑制二极管 Transient Voltage Suppressors (TVS)

SMFJ Series	3.3~220V	200W	SOD-123	43
P4SMFJ Series	5~60V	400W	SOD-123	45
SMAFJ Series	5~350V	400W	D0-214AC/SMA	47
SMA6J Series	5~350V	600W	D0-214AC/SMA	49
SMAJ Series	5~440V	400W	D0-214AC/SMA	51
SMA6J Series	5~440V	600W	D0-214AC/SMA	53
SMBJ Series	5~500V	600W	D0-214AA/SMB	55
1.0SMBJ Series	5~220V	1000W	D0-214AA/SMB	57
SMCJ Series	5~440V	1500W	D0-214AB/SMC	59
SMDJ Series	5~440V	3000W	D0-214AB/SMC	61
5.0SMDJ Series	11~440V	5000W	D0-214AB/SMC	63
8.0SMDJ Series	12~110V	8000W	D0-214AB/SMC	65
SM8S Series	16~43V	4000W	DO-218AB	67
SMAJ-TR Series	10~85V	400W	D0-214AC/SMA	68
SMBJ-TR Series	11~170V	600W	DO-214AA/SMB	70
SMCJ-TR Series	10~78V	1500W	DO-214AB/SMC	72
SMDJ-TR Series	10~43V	3000W	DO-218AB/SMC	74
5.0SMDJ-TR Series	10~58V	5000W	DO-218AB/SMC	75
P4KE Series	5.8~394.8V	400W	DO-41	77
P6KE Series	5.8~513V	600W	DO-15	79
1.5KE Series	5.8~408V	1500W	DO-201	81
3KP Series	5~440V	3000W	P600	83
5KP Series	5~440V	5000W	P600	84
15KPA Series	17~280V	15000W	P600	86
20KPA Series	20~300V	20000W	P600	88
30KPA Series	28~300V	30000W	P600	90
5KP-TR Series	10~60V	6000W	P600	92
AK3 Series	12~380V	3000A	-	93
AK10 Series	30~380V	10000A	-	94

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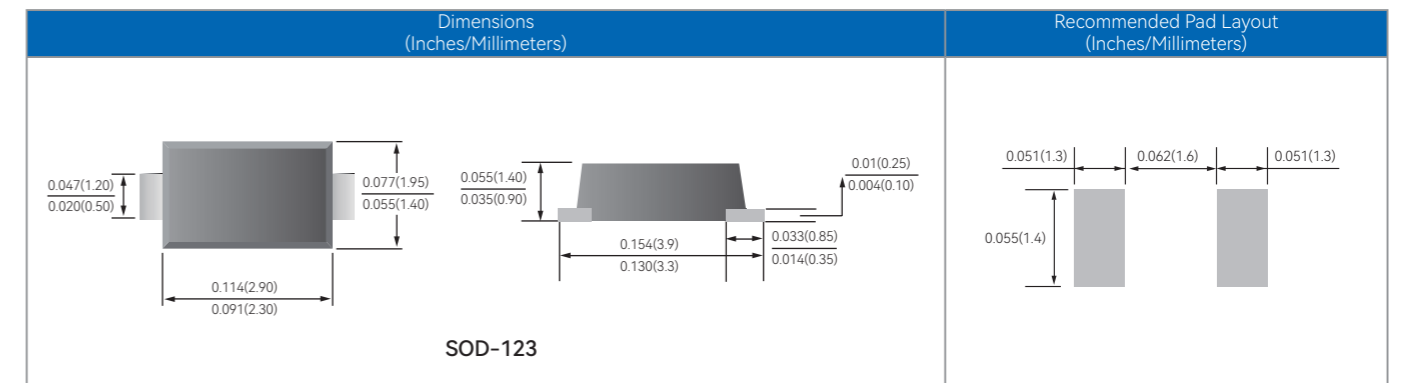
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Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	V	A	μ A
200W Transient Voltage Suppressors Diodes(SOD-123)										
SMFJ3.3A	SMFJ3.3CA	3.3A	3.3CA	3.3	4.3	5.30	10	7.3	27.5	400
SMFJ5.0A	SMFJ5.0CA	5.0A	5.0CA	5.0	6.40	7.07	10	9.6	20.8	400
SMFJ6.0A	SMFJ6.0CA	6.0A	6.0CA	6.0	6.67	7.37	10	10.3	19.4	400
SMFJ6.5A	SMFJ6.5CA	6.5A	6.5CA	6.5	7.22	7.98	10	11.2	17.8	50
SMFJ7.0A	SMFJ7.0CA	7.0A	7.0CA	7.0	7.78	8.6	10	12.0	16.6	30
SMFJ7.5A	SMFJ7.5CA	7.5A	7.5CA	7.5	8.33	9.21	1	12.9	15.5	30
SMFJ8.0A	SMFJ8.0CA	8.0A	8.0CA	8.0	8.89	9.83	1	13.6	14.7	10
SMFJ8.5A	SMFJ8.5CA	8.5A	8.5CA	8.5	9.44	10.4	1	14.4	13.9	5
SMFJ9.0A	SMFJ9.0CA	9.0A	9.0CA	9.0	10.00	11.1	1	15.4	13.0	3
SMFJ10A	SMFJ10CA	10A	10CA	10.0	11.10	12.3	1	17.0	11.7	1
SMFJ11A	SMFJ11CA	11A	11CA	11.0	12.20	13.5	1	18.2	11.0	1
SMFJ12A	SMFJ12CA	12A	12CA	12.0	13.30	14.7	1	19.9	10.0	1
SMFJ13A	SMFJ13CA	13A	13CA	13.0	14.40	15.9	1	21.5	9.30	1
SMFJ14A	SMFJ14CA	14A	14CA	14.0	15.60	17.2	1	23.2	8.60	1
SMFJ15A	SMFJ15CA	15A	15CA	15.0	16.70	18.5	1	24.4	8.20	1
SMFJ16A	SMFJ16CA	16A	16CA	16.0	17.80	19.7	1	26.0	7.70	1
SMFJ17A	SMFJ17CA	17A	17CA	17.0	18.90	20.9	1	27.6	7.20	1
SMFJ18A	SMFJ18CA	18A	18CA	18.0	20.00	22.1	1	29.2	6.80	1
SMFJ20A	SMFJ20CA	20A	20CA	20.0	22.20	24.5	1	32.4	6.10	1
SMFJ22A	SMFJ22CA	22A	22CA	22.0	24.40	26.9	1	35.5	5.60	1
SMFJ24A	SMFJ24CA	24A	24CA	24.0	26.70	29.5	1	38.9	5.10	1
SMFJ26A	SMFJ26CA	26A	26CA	26.0	28.90	31.9	1	42.1	4.70	1
SMFJ28A	SMFJ28CA	28A	28CA	28.0	31.10	34.4	1	45.4	4.40	1
SMFJ30A	SMFJ30CA	30A	30CA	30.0	33.30	36.8	1	48.4	4.10	1
SMFJ33A	SMFJ33CA	33A	33CA	33.0	36.70	40.6	1	53.3	3.70	1
SMFJ36A	SMFJ36CA	36A	36CA	36.0	40.00	44.2	1	58.1	3.40	1
SMFJ40A	SMFJ40CA	40A	40CA	40.0	44.40	49.1	1	64.5	3.10	1
SMFJ43A	SMFJ43CA	43A	43CA	43.0	47.80	52.8	1	69.4	2.90	1
SMFJ45A	SMFJ45CA	45A	45CA	45.0	50.00	55.3	1	72.7	2.70	1
SMFJ48A	SMFJ48CA	48A	48CA	48.0	53.30	58.9	1	77.4	2.60	1
SMFJ51A	SMFJ51CA	51A	51CA	51.0	56.70	62.7	1	82.4	2.40	1
SMFJ54A	SMFJ54CA	54A	54CA	54.0	60.00	66.3	1	87.1	2.30	1
SMFJ58A	SMFJ58CA	58A	58CA	58.0	64.40	71.2	1	93.6	2.10	1

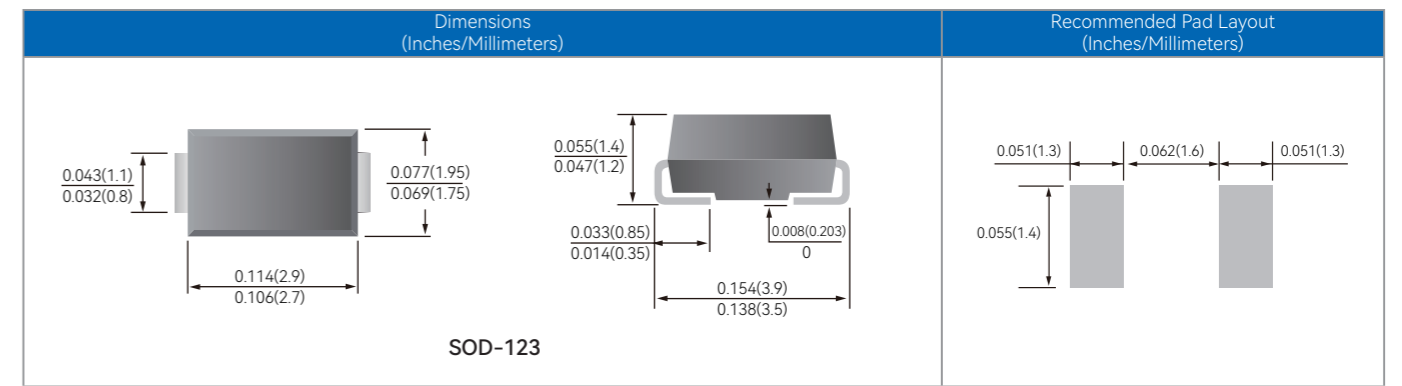
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	mA	V	A	μ A
SMFJ60A	SMFJ60CA	60A	60CA	60.0	66.70	73.70	1	96.8	2.0	1
SMFJ64A	SMFJ64CA	64A	64CA	64.0	71.10	78.60	1	103.0	1.9	1
SMFJ70A	SMFJ70CA	70A	70CA	70.0	77.80	86.00	1	113.0	1.7	1
SMFJ75A	SMFJ75CA	75A	75CA	75.0	83.30	92.10	1	121.0	1.6	1
SMFJ78A	SMFJ78CA	78A	78CA	78.0	86.70	95.80	1	126.0	1.5	1
SMFJ85A	SMFJ85CA	85A	85CA	85.0	94.40	104.0	1	137.0	1.4	1
SMFJ90A	SMFJ90CA	90A	90CA	90.0	100.00	111.0	1	146.0	1.3	1
SMFJ100A	SMFJ100CA	100A	100CA	100.0	111.00	123.0	1	162.0	1.2	1
SMFJ110A	SMFJ110CA	110A	110CA	110.0	122.00	135.0	1	177.0	1.1	1
SMFJ120A	SMFJ120CA	120A	120CA	120.0	133.00	147.0	1	193.0	1.0	1
SMFJ130A	SMFJ130CA	130A	130CA	130.0	144.00	159.0	1	209.0	0.9	1
SMFJ150A	SMFJ150CA	150A	150CA	150.0	167.00	185.0	1	243.0	0.8	1
SMFJ160A	SMFJ160CA	160A	160CA	160.0	178.00	197.0	1	259.0	0.7	1
SMFJ170A	SMFJ170CA	170A	170CA	170.0	189.00	209.0	1	275.0	0.7	1
SMFJ180A	SMFJ180CA	180A	180CA	180.0	201.0	222.0	1	292.0	0.7	1
SMFJ190A	SMFJ190CA	190A	190CA	190.0	209.00	243.0	1	308.0	0.6	1
SMFJ200A	SMFJ200CA	200A	200CA	200.0	224.0	247.0	1	324.0	0.6	1
SMFJ220A	SMFJ220CA	220A	220CA	220.0	246.0	272.0	1	356.0	0.5	1

Notes: For bidirectional type having V_{RWM} of 10V and less, the I_R limit is double.



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR} @ I_T$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	V	A	μ A
P4SMFJ5.0A	P4SMFJ5.0CA	EHE	ETE	5.0	6.40	7.00	10	9.2	43.5	400
P4SMFJ6.0A	P4SMFJ6.0CA	EHG	ETG	6.0	6.67	7.37	10	10.3	38.8	400
P4SMFJ6.5A	P4SMFJ6.5CA	EHK	ETK	6.5	7.22	7.98	10	11.2	35.7	400
P4SMFJ7.0A	P4SMFJ7.0CA	EHM	ETM	7.0	7.78	8.60	10	12.0	33.3	250
P4SMFJ7.5A	P4SMFJ7.5CA	EHP	ETP	7.5	8.33	9.21	10	12.9	31.0	100
P4SMFJ8.0A	P4SMFJ8.0CA	EHR	ETR	8.0	8.89	9.83	1	13.6	29.4	50
P4SMFJ8.5A	P4SMFJ8.5CA	EHT	ETT	8.5	9.44	10.4	1	14.4	27.8	25
P4SMFJ9.0A	P4SMFJ9.0CA	EHV	ETV	9.0	10.0	11.1	1	15.4	26.0	10
P4SMFJ10A	PP4SMFJ10CA	EHX	ETX	10.0	11.1	12.3	1	17.0	23.5	5
P4SMFJ11A	PP4SMFJ11CA	EHZ	ETZ	11.0	12.2	13.5	1	18.2	22.0	2.5
P4SMFJ12A	P4SMFJ12CA	EIE	EUE	12.0	13.3	14.7	1	19.9	20.1	2.5
P4SMFJ13A	P4SMFJ13CA	EIG	EUG	13.0	14.4	15.9	1	21.5	18.6	2.5
P4SMFJ14A	P4SMFJ14CA	EIK	EUK	14.0	15.6	17.2	1	23.2	17.2	1
P4SMFJ15A	P4SMFJ15CA	EIM	EUM	15.0	16.7	18.5	1	24.4	16.4	1
P4SMFJ16A	P4SMFJ16CA	EIP	EUP	16.0	17.8	19.7	1	26.0	15.4	1
P4SMFJ17A	P4SMFJ17CA	PEIR	EUR	17.0	18.9	20.9	1	27.6	14.5	1
P4SMFJ18A	P4SMFJ18CA	EIT	EUT	18.0	20.0	22.1	1	29.2	13.7	1
P4SMFJ20A	P4SMFJ20CA	EIV	EUV	20.0	22.2	24.5	1	32.4	12.3	1
P4SMFJ22A	P4SMFJ22CA	PEIX	EUX	22.0	24.4	26.9	1	35.5	11.3	1
P4SMFJ24A	PP4SMFJ24CA	EIZ	EUZ	24.0	26.7	29.5	1	38.9	10.3	1
P4SMFJ26A	P4SMFJ26CA	EJE	EVE	26.0	28.9	31.9	1	42.1	9.5	1
P4SMFJ28A	P4SMFJ28CA	EJG	EVG	28.0	31.1	34.4	1	45.4	8.8	1
P4SMFJ30A	P4SMFJ30CA	EJK	EVK	30.0	33.3	36.8	1	48.4	8.3	1
P4SMFJ33A	P4SMFJ33CA	EJM	EVM	33.0	36.7	40.6	1	53.3	7.5	1
P4SMFJ36A	P4SMFJ36CA	EJP	EVP	36.0	40.0	44.2	1	58.1	6.9	1
P4SMFJ40A	P4SMFJ40CA	EJR	EVR	40.0	44.4	49.1	1	64.5	6.2	1
P4SMFJ43A	P4SMFJ43CA	EJT	EVT	43.0	47.8	52.8	1	69.4	5.8	1
P4SMFJ45A	P4SMFJ45CA	EJV	EVV	45.0	50.0	55.3	1	72.7	5.5	1
P4SMFJ48A	P4SMFJ48CA	EJX	EVX	48.0	53.3	58.9	1	77.4	5.2	1
P4SMFJ51A	P4SMFJ51CA	EJZ	EVZ	51.0	56.7	62.7	1	82.4	4.9	1
P4SMFJ54A	P4SMFJ54CA	ERE	EWE	54.0	60.0	66.3	1	87.1	4.6	1
P4SMFJ58A	P4SMFJ58CA	ERG	EWG	58.0	64.4	71.2	1	93.6	4.3	1
P4SMFJ60A	P4SMFJ60CA	ERK	EWK	60.0	66.7	73.7	1	96.8	4.1	1

Notes: For bidirectional type having VRWM of 10V and less, the IR limit is double.

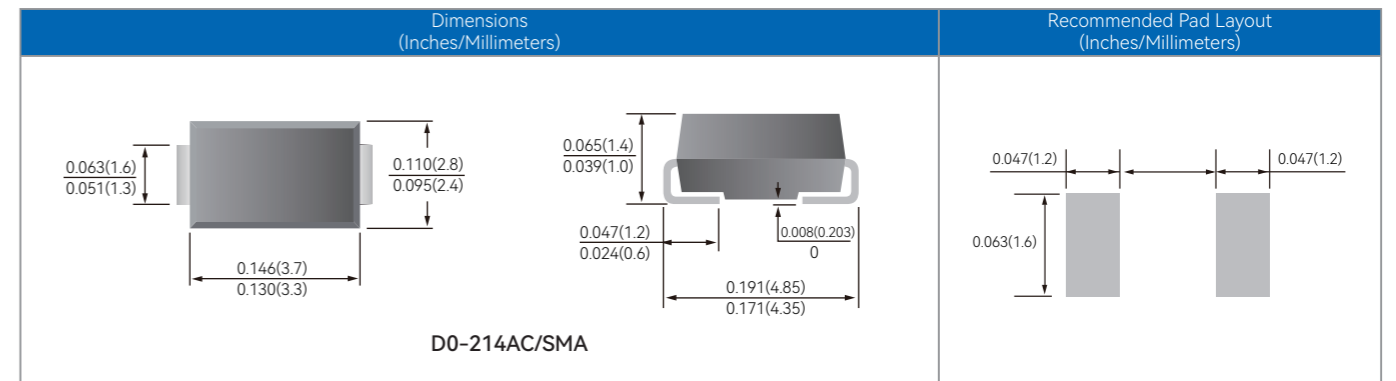


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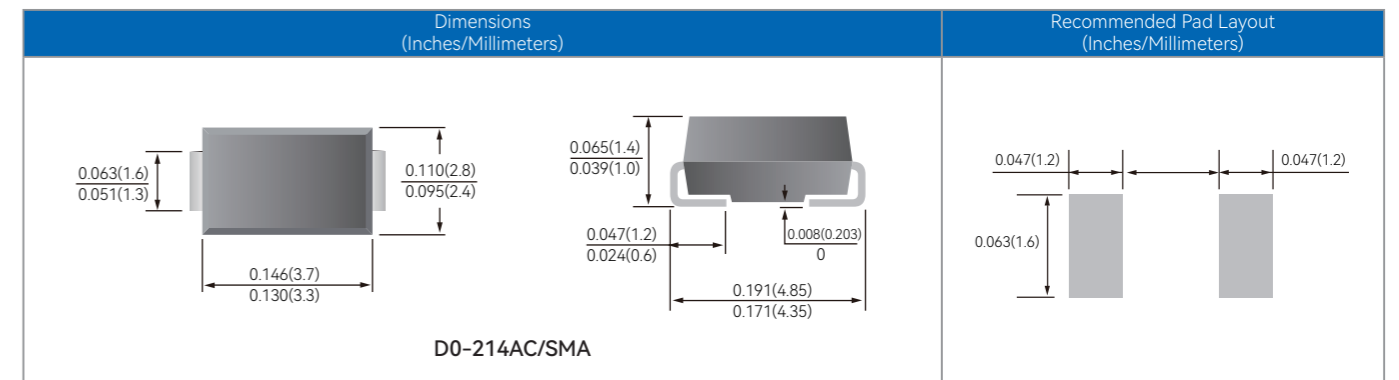
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	V	A	μ A
SMAFJ5.0A	SMAFJ5.0CA	AE	WE	5	6.4	7	10	9.2	43.5	800
SMAFJ6.0A	SMAFJ6.0CA	AG	WG	6	6.67	7.37	10	10.3	38.8	800
SMAFJ6.5A	SMAFJ6.5CA	AK	WK	6.5	7.22	7.98	10	11.2	35.7	500
SMAFJ7.0A	SMAFJ7.0CA	AM	WM	7	7.78	8.6	10	12	33.3	200
SMAFJ7.5A	SMAFJ7.5CA	AP	WP	7.5	8.33	9.21	1	12.9	31	100
SMAFJ8.0A	SMAFJ8.0CA	AR	WR	8	8.89	9.83	1	13.6	29.4	50
SMAFJ8.5A	SMAFJ8.5CA	AT	WT	8.5	9.44	10.4	1	14.4	27.8	20
SMAFJ9.0A	SMAFJ9.0CA	AV	WV	9	10	11.1	1	15.4	26	10
SMAFJ10A	SMAFJ10CA	AX	WX	10	11.1	12.3	1	17	23.5	5
SMAFJ11A	SMAFJ11CA	AZ	WZ	11	12.2	13.5	1	18.2	22	1
SMAFJ12A	SMAFJ12CA	BE	XE	12	13.3	14.7	1	19.9	20.1	1
SMAFJ13A	SMAFJ13CA	BG	XG	13	14.4	15.9	1	21.5	18.6	1
SMAFJ14A	SMAFJ14CA	BK	XK	14	15.6	17.2	1	23.2	17.2	1
SMAFJ15A	SMAFJ15CA	BM	XM	15	16.7	18.5	1	24.4	16.4	1
SMAFJ16A	SMAFJ16CA	BP	XP	16	17.8	19.7	1	26	15.4	1
SMAFJ17A	SMAFJ17CA	BR	XR	17	18.9	20.9	1	27.6	14.5	1
SMAFJ18A	SMAFJ18CA	BT	XT	18	20	22.1	1	29.2	13.7	1
SMAFJ20A	SMAFJ20CA	BV	XV	20	22.2	24.5	1	32.4	12.3	1
SMAFJ22A	SMAFJ22CA	BX	XX	22	24.4	26.9	1	35.5	11.3	1
SMAFJ24A	SMAFJ24CA	BZ	XZ	24	26.7	29.5	1	38.9	10.3	1
SMAFJ26A	SMAFJ26CA	CE	YE	26	28.9	31.9	1	42.1	9.5	1
SMAFJ28A	SMAFJ28CA	CG	YG	28	31.1	34.4	1	45.4	8.8	1
SMAFJ30A	SMAFJ30CA	CK	YK	30	33.3	36.8	1	48.4	8.3	1
SMAFJ33A	SMAFJ33CA	CM	YM	33	36.7	40.6	1	53.3	7.5	1
SMAFJ36A	SMAFJ36CA	CP	YP	36	40	44.2	1	58.1	6.9	1
SMAFJ40A	SMAFJ40CA	CR	YR	40	44.4	49.1	1	64.5	6.2	1
SMAFJ43A	SMAFJ43CA	CT	YT	43	47.8	52.8	1	69.4	5.8	1
SMAFJ45A	SMAFJ45CA	CV	YV	45	50	55.3	1	72.7	5.5	1
SMAFJ48A	SMAFJ48CA	CX	YX	48	53.3	58.9	1	77.4	5.2	1
SMAFJ51A	SMAFJ51CA	CZ	YZ	51	56.7	62.7	1	82.4	4.9	1
SMAFJ54A	SMAFJ54CA	RE	ZE	54	60	66.3	1	87.1	4.6	1
SMAFJ58A	SMAFJ58CA	RG	ZG	58	64.4	71.2	1	93.6	4.3	1
SMAFJ60A	SMAFJ60CA	RK	ZK	60	66.7	73.7	1	96.8	4.1	1
SMAFJ64A	SMAFJ64CA	RM	ZM	64	71.1	78.6	1	103	3.9	1

Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	V	A	μ A
SMAFJ70A	SMAFJ70CA	RP	ZP	70	77.8	86	1	113	3.5	1
SMAFJ75A	SMAFJ75CA	RR	ZR	75	83.3	92.1	1	121	3.3	1
SMAFJ78A	SMAFJ78CA	RT	ZT	78	86.7	95.8	1	126	3.2	1
SMAFJ85A	SMAFJ85CA	RV	ZV	85	94.4	104	1	137	2.9	1
SMAFJ90A	SMAFJ90CA	RX	ZX	90	100	111	1	146	2.7	1
SMAFJ100A	SMAFJ100CA	RZ	ZZ	100	111	123	1	162	2.5	1
SMAFJ110A	SMAFJ110CA	SE	VE	110	122	135	1	177	2.3	1
SMAFJ120A	SMAFJ120CA	SG	VG	120	133	147	1	193	2.1	1
SMAFJ130A	SMAFJ130CA	SK	VK	130	144	159	1	209	1.9	1
SMAFJ150A	SMAFJ150CA	SM	VM	150	167	185	1	243	1.6	1
SMAFJ160A	SMAFJ160CA	SP	VP	160	178	197	1	259	1.5	1
SMAFJ170A	SMAFJ170CA	SR	VR	170	189	209	1	275	1.5	1
SMAFJ180A	SMAFJ180CA	ST	VT	180	201	222	1	292	1.4	1
SMAFJ190A	SMAFJ190CA	SU	YU	190	209	233	1	306	1.3	1
SMAFJ200A	SMAFJ200CA	SV	VV	200	224	247	1	324	1.2	1
SMAFJ210A	SMAFJ210CA	SW	YW	210	231	258	1	324	1.1	1
SMAFJ220A	SMAFJ220CA	GX	VX	220	246	272	1	356	1.1	1
SMAFJ250A	SMAFJ250CA	SZ	VZ	250	279	309	1	405	1	1
SMAFJ300A	SMAFJ300CA	TE	UE	300	335	371	1	486	0.8	1
SMAFJ350A	SMAFJ350CA	TG	UG	350	391	432	1	567	0.7	1



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR} @ I_T$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
SMAF6J5.0A	SMAF6J5.0CA	KE	AE	5	6.4	7.07	10	9.2	65.2	800
SMAF6J6.0A	SMAF6J6.0CA	KG	AG	6	6.67	7.37	10	10.3	58.3	800
SMAF6J6.5A	SMAF6J6.5CA	KK	AK	6.5	7.22	7.98	10	11.2	53.6	500
SMAF6J7.0A	SMAF6J7.0CA	KM	AM	7	7.78	8.6	10	12	50	200
SMAF6J7.5A	SMAF6J7.5CA	KP	AP	7.5	8.33	9.21	1	12.9	46.6	100
SMAF6J8.0A	SMAF6J8.0CA	KR	AR	8	8.89	9.83	1	13.6	44.2	50
SMAF6J8.5A	SMAF6J8.5CA	KT	AT	8.5	9.44	10.4	1	14.4	41.7	20
SMAF6J9.0A	SMAF6J9.0CA	KV	AV	9	10	11.1	1	15.4	39	10
SMAF6J10A	SMAF6J10CA	KX	AX	10	11.1	12.3	1	17	35.3	5
SMAF6J11A	SMAF6J11CA	KZ	AZ	11	12.2	13.5	1	18.2	33	1
SMAF6J12A	SMAF6J12CA	LE	BE	12	13.3	14.7	1	19.9	30.2	1
SMAF6J13A	SMAF6J13CA	LG	BG	13	14.4	15.9	1	21.5	28	1
SMAF6J14A	SMAF6J14CA	LK	BK	14	15.6	17.2	1	23.2	25.9	1
SMAF6J15A	SMAF6J15CA	LM	BM	15	16.7	18.5	1	24.4	24.6	1
SMAF6J16A	SMAF6J16CA	LP	BP	16	17.8	19.7	1	26	23.1	1
SMAF6J17A	SMAF6J17CA	LR	BR	17	18.9	20.9	1	27.6	21.8	1
SMAF6J18A	SMAF6J18CA	LT	BT	18	20	22.1	1	29.2	20.6	1
SMAF6J20A	SMAF6J20CA	LV	BV	20	22.2	24.5	1	32.4	18.6	1
SMAF6J22A	SMAF6J22CA	LX	BX	22	24.4	26.9	1	35.5	16.9	1
SMAF6J24A	SMAF6J24CA	LZ	BZ	24	26.7	29.5	1	38.9	15.5	1
SMAF6J26A	SMAF6J26CA	ME	CE	26	28.9	31.9	1	42.1	14.3	1
SMAF6J28A	SMAF6J28CA	MG	CG	28	31.1	34.4	1	45.4	13.3	1
SMAF6J30A	SMAF6J30CA	MK	CK	30	33.3	36.8	1	48.4	12.4	1
SMAF6J33A	SMAF6J33CA	MM	CM	33	36.7	40.6	1	53.3	11.3	1
SMAF6J36A	SMAF6J36CA	MP	CP	36	40	44.2	1	58.1	10.4	1
SMAF6J40A	SMAF6J40CA	MR	CR	40	44.4	49.1	1	64.5	9.3	1
SMAF6J43A	SMAF6J43CA	MT	CT	43	47.8	52.8	1	69.4	8.7	1
SMAF6J45A	SMAF6J45CA	MV	CV	45	50	55.3	1	72.7	8.3	1
SMAF6J48A	SMAF6J48CA	MX	CX	48	53.3	58.9	1	77.4	7.8	1
SMAF6J51A	SMAF6J51CA	MZ	CZ	51	56.7	62.7	1	82.4	7.3	1
SMAF6J54A	SMAF6J54CA	NE	DE	54	60	66.3	1	87.1	6.9	1
SMAF6J58A	SMAF6J58CA	NG	DG	58	64.4	71.2	1	93.6	6.5	1
SMAF6J60A	SMAF6J60CA	NK	DK	60	66.7	73.7	1	96.8	6.2	1
SMAF6J64A	SMAF6J64CA	NM	DM	64	71.1	78.6	1	103	5.9	1

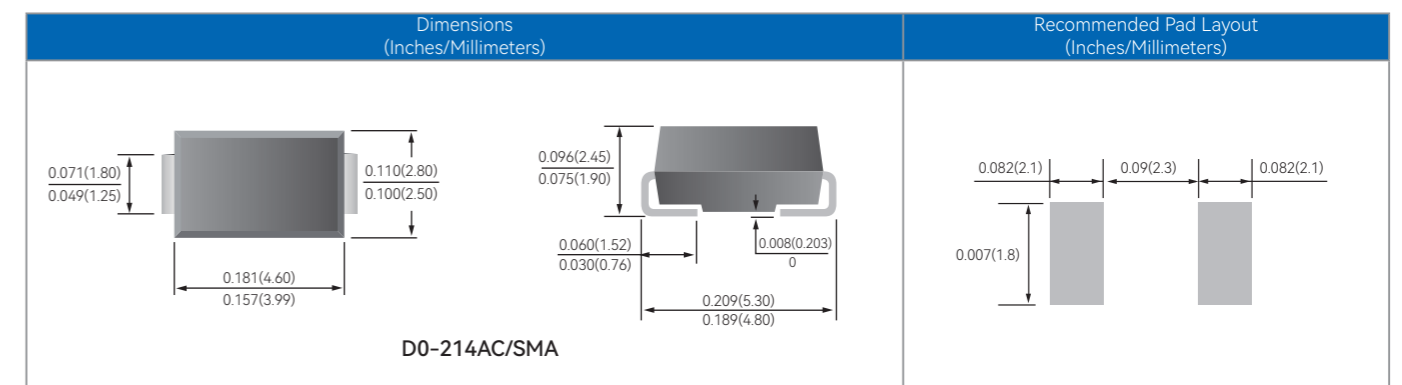
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR} @ I_T$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
SMAF6J70A	SMAF6J70CA	NP	DP	70	77.8	86	1	113	5.3	1
SMAF6J75A	SMAF6J75CA	NR	DR	75	83.3	92.1	1	121	5	1
SMAF6J78A	SMAF6J78CA	NT	DT	78	86.7	95.8	1	126	4.8	1
SMAF6J85A	SMAF6J85CA	NV	DV	85	94.4	104	1	137	4.4	1
SMAF6J90A	SMAF6J90CA	NX	DX	90	100	111	1	146	4.1	1
SMAF6J100A	SMAF6J100CA	NZ	DZ	100	111	123	1	162	3.7	1
SMAF6J110A	SMAF6J110CA	PE	EE	110	122	135	1	177	3.4	1
SMAF6J120A	SMAF6J120CA	PG	EG	120	133	147	1	193	3.1	1
SMAF6J130A	SMAF6J130CA	PK	EK	130	144	159	1	209	2.9	1
SMAF6J150A	SMAF6J150CA	PM	EM	150	167	185	1	243	2.5	1
SMAF6J160A	SMAF6J160CA	PP	EP	160	178	197	1	259	2.3	1
SMAF6J170A	SMAF6J170CA	PR	ER	170	189	209	1	275	2.2	1
SMAF6J180A	SMAF6J180CA	PT	ET	180	201	222	1	292	2.1	1
SMAF6J190A	SMAF6J190CA	PA	EC	190	209	243	1	306	2	1
SMAF6J200A	SMAF6J200CA	PV	EV	200	224	247	1	324	1.9	1
SMAF6J210A	SMAF6J210CA	PB	ED	210	231	268	1	340	1.8	1
SMAF6J220A	SMAF6J220CA	PX	EX	220	246	272	1	356	1.7	1
SMAF6J250A	-	PZ	-	250	279	309	1	405	1.5	1
SMAF6J300A	-	QE	-	300	335	371	1	486	1.3	1
SMAF6J350A	-	QG	-	350	391	432	1	567	1.1	1
SMAF6J400A	-	QK	-	400	447	494	1	648	0.9	1
SMAF6J440A	-	QM	-	440	492	543	1	713	0.9	1



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
400W Transient Voltage Suppressors Diodes(SMA/DO-214AC)										
SMAJ5.0A	SMAJ5.0CA	HE	TE	5.0	6.40	7.00	10	9.20	43.5	400
SMAJ6.0A	SMAJ6.0CA	HG	TG	6.0	6.67	7.37	10	10.3	38.8	400
SMAJ6.5A	SMAJ6.5CA	HK	TK	6.5	7.22	7.98	10	11.2	35.7	250
SMAJ7.0A	SMAJ7.0CA	HM	TM	7.0	7.78	8.60	10	12.0	33.3	100
SMAJ7.5A	SMAJ7.5CA	HP	TP	7.5	8.33	9.21	1	12.9	31.0	50
SMAJ8.0A	SMAJ8.0CA	HR	TR	8.0	8.89	9.83	1	13.6	29.4	25
SMAJ8.5A	SMAJ8.5CA	HT	TT	8.5	9.44	10.40	1	14.4	27.8	10
SMAJ9.0A	SMAJ9.0CA	HV	TV	9.0	10.00	11.10	1	15.4	26.0	5
SMAJ10A	SMAJ10CA	HX	TX	10.0	11.10	12.30	1	17.0	23.5	5
SMAJ11A	SMAJ11CA	HZ	TZ	11.0	12.20	13.50	1	18.2	22.0	1
SMAJ12A	SMAJ12CA	IE	UE	12.0	13.30	14.70	1	19.9	20.1	1
SMAJ13A	SMAJ13CA	IG	UG	13.0	14.40	15.90	1	21.5	18.6	1
SMAJ14A	SMAJ14CA	IK	UK	14.0	15.60	17.20	1	23.2	17.2	1
SMAJ15A	SMAJ15CA	IM	UM	15.0	16.70	18.50	1	24.4	16.4	1
SMAJ16A	SMAJ16CA	IP	UP	16.0	17.80	19.70	1	26.0	15.4	1
SMAJ17A	SMAJ17CA	IR	UR	17.0	18.90	20.90	1	27.6	14.5	1
SMAJ18A	SMAJ18CA	IT	UT	18.0	20.00	22.10	1	29.2	13.7	1
SMAJ20A	SMAJ20CA	IV	UV	20.0	22.20	24.50	1	32.4	12.3	1
SMAJ22A	SMAJ22CA	IX	UX	22.0	24.40	26.90	1	35.5	11.3	1
SMAJ24A	SMAJ24CA	IZ	UZ	24.0	26.70	29.50	1	38.9	10.3	1
SMAJ26A	SMAJ26CA	JE	VE	26.0	28.90	31.90	1	42.1	9.5	1
SMAJ28A	SMAJ28CA	JG	VG	28.0	31.10	34.40	1	45.4	8.8	1
SMAJ30A	SMAJ30CA	JK	VK	30.0	33.30	36.80	1	48.4	8.3	1
SMAJ33A	SMAJ33CA	JM	VM	33.0	36.70	40.60	1	53.3	7.5	1
SMAJ36A	SMAJ36CA	JP	VP	36.0	40.00	44.20	1	58.1	6.9	1
SMAJ40A	SMAJ40CA	JR	VR	40.0	44.40	49.10	1	64.5	6.2	1
SMAJ43A	SMAJ43CA	JT	VT	43.0	47.80	52.80	1	69.4	5.8	1
SMAJ45A	SMAJ45CA	JV	VV	45.0	50.00	55.30	1	72.7	5.5	1
SMAJ48A	SMAJ48CA	JX	VX	48.0	53.30	58.90	1	77.4	5.2	1
SMAJ51A	SMAJ51CA	JZ	VZ	51.0	56.70	62.70	1	82.4	4.9	1
SMAJ54A	SMAJ54CA	RE	WE	54.0	60.00	66.30	1	87.1	4.6	1
SMAJ58A	SMAJ58CA	RG	WG	58.0	64.40	71.20	1	93.6	4.3	1
SMAJ60A	SMAJ60CA	RK	WK	60.0	66.70	73.70	1	96.8	4.1	1
SMAJ64A	SMAJ64CA	RM	WM	64.0	71.10	78.60	1	103.0	3.9	1

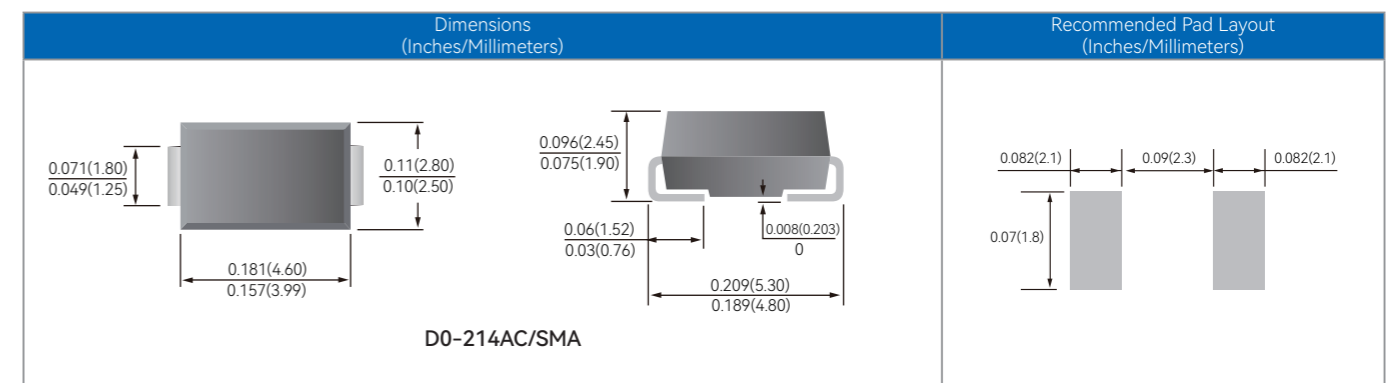
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	mA	V	A	μ A
SMAJ70A	SMAJ70CA	RP	WP	70	77.8	86	1	113	3.5	1
SMAJ75A	SMAJ75CA	RR	WR	75	83.3	92.1	1	121	3.3	1
SMAJ78A	SMAJ78CA	RT	WT	78	86.7	95.8	1	126	3.2	1
SMAJ85A	SMAJ85CA	RV	WV	85	94.4	104	1	137	2.9	1
SMAJ90A	SMAJ90CA	RX	WX	90	100	111	1	146	2.7	1
SMAJ100A	SMAJ100CA	RZ	WZ	100	111	123	1	162	2.5	1
SMAJ110A	SMAJ110CA	SE	XE	110	122	135	1	177	2.3	1
SMAJ120A	SMAJ120CA	SG	XG	120	133	147	1	193	2.1	1
SMAJ130A	SMAJ130CA	SK	XK	130	144	159	1	209	1.9	1
SMAJ150A	SMAJ150CA	SM	XM	150	167	185	1	243	1.6	1
SMAJ160A	SMAJ160CA	SP	XP	160	178	197	1	259	1.5	1
SMAJ170A	SMAJ170CA	SR	XR	170	189	209	1	275	1.5	1
SMAJ180A	SMAJ180CA	ST	XT	180	201	220	1	292	1.4	1
SMAJ190A	SMAJ190CA	SV	XV	190	209	233	1	306	1.3	1
SMAJ200A	SMAJ200CA	SX	XX	200	224	247	1	324	1.2	1
SMAJ210A	SMAJ210CA	SZ	XZ	210	231	258	1	324	1.1	1
SMAJ220A	SMAJ220CA	ZE	YE	220	246	272	1	356	1.1	1
SMAJ250A	SMAJ250CA	ZG	YG	250	279	309	1	405	1.0	1
SMAJ300A	SMAJ300CA	ZK	YK	300	335	371	1	486	0.8	1
SMAJ350A	SMAJ350CA	ZM	YM	350	391	432	1	567	0.7	1
SMAJ400A	SMAJ400CA	ZP	YP	400	447	494	1	648	0.6	1
SMAJ440A	SMAJ440CA	ZR	YR	440	492	543	1	713	0.6	1

Notes: For bidirectional type having VRWM of 10V and less, the IR limit is double.



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR}@I_T$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	V	A	μ A
SMA6J5.0A	SMA6J5.0CA	KE	AE	5.0	6.40	7.07	10	9.2	65.2	800
SMA6J6.0A	SMA6J6.0CA	KG	AG	6.0	6.67	7.37	10	10.3	58.3	800
SMA6J6.5A	SMA6J6.5CA	KK	AK	6.5	7.22	7.98	10	11.2	53.6	500
SMA6J7.0A	SMA6J7.0CA	KM	AM	7.0	7.78	8.60	10	12.0	50.0	200
SMA6J7.5A	SMA6J7.5CA	KP	AP	7.5	8.33	9.21	1	12.9	46.6	100
SMA6J8.0A	SMA6J8.0CA	KR	AR	8.0	8.89	9.83	1	13.6	44.2	50
SMA6J8.5A	SMA6J8.5CA	KT	AT	8.5	9.44	10.4	1	14.4	41.7	20
SMA6J9.0A	SMA6J9.0CA	KV	AV	9.0	10.00	11.1	1	15.4	39.0	10
SMA6J10A	SMA6J10CA	KX	AX	10.0	11.10	12.3	1	17.0	35.3	5
SMA6J11A	SMA6J11CA	KZ	AZ	11.0	12.20	13.5	1	18.2	33.0	1
SMA6J12A	SMA6J12CA	LE	BE	12.0	13.30	14.7	1	19.9	30.2	1
SMA6J13A	SMA6J13CA	LG	BG	13.0	14.40	15.9	1	21.5	28.0	1
SMA6J14A	SMA6J14CA	LK	BK	14.0	15.60	17.2	1	23.2	25.9	1
SMA6J15A	SMA6J15CA	LM	BM	15.0	16.70	18.5	1	24.4	24.6	1
SMA6J16A	SMA6J16CA	LP	BP	16.0	17.80	19.7	1	26.0	23.1	1
SMA6J17A	SMA6J17CA	LR	BR	17.0	18.90	20.9	1	27.6	21.8	1
SMA6J18A	SMA6J18CA	LT	BT	18.0	20.00	22.1	1	29.2	20.6	1
SMA6J20A	SMA6J20CA	LV	BV	20.0	22.20	24.5	1	32.4	18.6	1
SMA6J22A	SMA6J22CA	LX	BX	22.0	24.40	26.9	1	35.5	16.9	1
SMA6J24A	SMA6J24CA	LZ	BZ	24.0	26.70	29.5	1	38.9	15.5	1
SMA6J26A	SMA6J26CA	ME	CE	26.0	28.90	31.9	1	42.1	14.3	1
SMA6J28A	SMA6J28CA	MG	CG	28.0	31.10	34.4	1	45.4	13.3	1
SMA6J30A	SMA6J30CA	MK	CK	30.0	33.30	36.8	1	48.4	12.4	1
SMA6J33A	SMA6J33CA	MM	CM	33.0	36.70	40.6	1	53.3	11.3	1
SMA6J36A	SMA6J36CA	MP	CP	36.0	40.00	44.2	1	58.1	10.4	1
SMA6J40A	SMA6J40CA	MR	CR	40.0	44.40	49.1	1	64.5	9.3	1
SMA6J43A	SMA6J43CA	MT	CT	43.0	47.80	52.8	1	69.4	8.7	1
SMA6J45A	SMA6J45CA	MV	CV	45.0	50.00	55.3	1	72.7	8.3	1
SMA6J48A	SMA6J48CA	MX	CX	48.0	53.30	58.9	1	77.4	7.8	1
SMA6J51A	SMA6J51CA	MZ	CZ	51.0	56.70	62.7	1	82.4	7.3	1
SMA6J54A	SMA6J54CA	NE	DE	54.0	60.00	66.3	1	87.1	6.9	1
SMA6J58A	SMA6J58CA	NG	DG	58.0	64.40	71.2	1	93.6	6.5	1

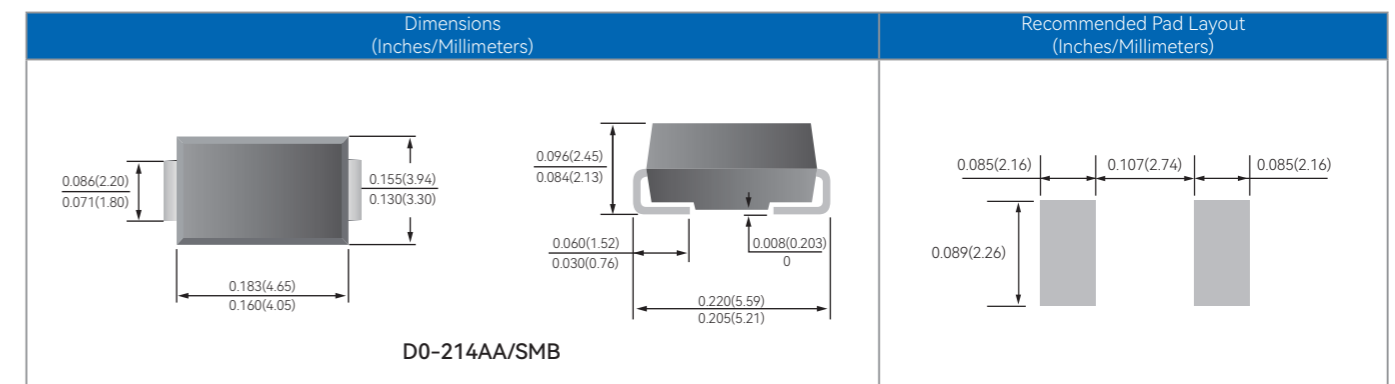
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR}@I_T$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	V	A	μ A
SMA6J60A	SMA6J60CA	NK	DK	60.0	66.70	73.7	1	96.8	6.2	1
SMA6J64A	SMA6J64CA	NM	DM	64.0	71.10	78.6	1	103.0	5.9	1
SMA6J70A	SMA6J70CA	NP	DP	70.0	77.80	86.0	1	113.0	5.3	1
SMA6J75A	SMA6J75CA	NR	DR	75.0	83.30	92.1	1	121.0	5.0	1
SMA6J78A	SMA6J78CA	NT	DT	78.0	86.70	95.8	1	126.0	4.8	1
SMA6J85A	SMA6J85CA	NV	DV	85.0	94.40	104.0	1	137.0	4.4	1
SMA6J90A	SMA6J90CA	NX	DX	90.0	100.0	111.0	1	146.0	4.1	1
SMA6J100A	SMA6J100CA	NZ	DZ	100.0	111.0	123.0	1	162.0	3.7	1
SMA6J110A	SMA6J110CA	PE	EE	110.0	122.0	135.0	1	177.0	3.4	1
SMA6J120A	SMA6J120CA	PG	EG	120.0	133.0	147.0	1	193.0	3.1	1
SMA6J130A	SMA6J130CA	PK	EK	130.0	144.0	159.0	1	209.0	2.9	1
SMA6J150A	SMA6J150CA	PM	EM	150.0	167.0	185.0	1	243.0	2.5	1
SMA6J160A	SMA6J160CA	PP	EP	160.0	178.0	197.0	1	259.0	2.3	1
SMA6J170A	SMA6J170CA	PR	ER	170.0	189.0	209.0	1	275.0	2.2	1
SMA6J180A	SMA6J180CA	PT	ET	180.0	201.0	222.0	1	292.0	2.1	1
SMA6J190A	SMA6J190CA	PA	EC	190.0	209.0	243.0	1	306.0	2.0	1
SMA6J200A	SMA6J200CA	PV	EV	200.0	224.0	247.0	1	324.0	1.9	1
SMA6J210A	SMA6J210CA	PB	ED	210.0	231.0	268.0	1	340.0	1.8	1
SMA6J220A	SMA6J220CA	PX	EX	220.0	246.0	272.0	1	356.0	1.7	1
SMA6J250A	-	PZ	-	250.0	279.0	309.0	1	405.0	1.5	1
SMA6J300A	-	QE	-	300.0	335.0	371.0	1	486.0	1.3	1
SMA6J350A	-	QG	-	350.0	391.0	432.0	1	567.0	1.1	1
SMA6J400A	-	QK	-	400.0	447.0	494.0	1	648.0	0.9	1
SMA6J440A	-	QM	-	440.0	492.0	543.0	1	713.0	0.9	1



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
UNI	BI	UNI	BI	V _{RWM}	V _{BR @IT}		I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
				V	Min(V)	Max(V)	mA	V	A	μ A
600W Transient Voltage Suppressors Diodes(SMB/DO-214AA)										
SMBJ3.3A	-	KC	-	3.3	4.0	6.0	1	8.0	75	100
SMBJ5.0A	SMBJ5.0CA	KE	AE	5	6.4	7.07	10	9.2	65.2	250
SMBJ6.0A	SMBJ6.0CA	KG	AG	6	6.67	7.37	10	10.3	58.3	150
SMBJ6.5A	SMBJ6.5CA	KK	AK	6.5	7.22	7.98	10	11.2	53.6	100
SMBJ6.8A	SMBJ6.8CA	6.8A	6.8CA	5.8	6.45	7.14	10	10.5	57	500
SMBJ7.0A	SMBJ7.0CA	KM	AM	7	7.78	8.6	10	12.0	50	50
SMBJ7.5A	SMBJ7.5CA	KP	AP	7.5	8.33	9.21	1	12.9	46.6	25
SMBJ8.0A	SMBJ8.0CA	KR	AR	8	8.89	9.83	1	13.6	44.2	25
SMBJ8.5A	SMBJ8.5CA	KT	AT	8.5	9.44	10.4	1	14.4	41.7	15
SMBJ9.0A	SMBJ9.0CA	KV	AV	9	10	11.1	1	15.4	39	15
SMBJ10A	SMBJ10CA	KX	AX	10	11.1	12.3	1	17.0	35.3	2
SMBJ11A	SMBJ11CA	KZ	AZ	11	12.2	13.5	1	18.2	33	1
SMBJ12A	SMBJ12CA	LE	BE	12	13.3	14.7	1	19.9	30.2	1
SMBJ13A	SMBJ13CA	LG	BG	13	14.4	15.9	1	21.5	28	1
SMBJ14A	SMBJ14CA	LK	BK	14	15.6	17.2	1	23.2	25.9	1
SMBJ15A	SMBJ15CA	LM	BM	15	16.7	18.5	1	24.4	24.6	1
SMBJ16A	SMBJ16CA	LP	BP	16	17.8	19.7	1	26.0	23.1	1
SMBJ17A	SMBJ17CA	LR	BR	17	18.9	20.9	1	27.6	21.8	1
SMBJ18A	SMBJ18CA	LT	BT	18	20	22.1	1	29.2	20.6	1
SMBJ20A	SMBJ20CA	LV	BV	20	22.2	24.5	1	32.4	18.6	1
SMBJ22A	SMBJ22CA	LX	BX	22	24.4	26.9	1	35.5	16.9	1
SMBJ24A	SMBJ24CA	LZ	BZ	24	26.7	29.5	1	38.9	15.5	1
SMBJ26A	SMBJ26CA	ME	CE	26	28.9	31.9	1	42.1	14.3	1
SMBJ28A	SMBJ28CA	MG	CG	28	31.1	34.4	1	45.4	13.3	1
SMBJ30A	SMBJ30CA	MK	CK	30	33.3	36.8	1	48.4	12.4	1
SMBJ33A	SMBJ33CA	MM	CM	33	36.7	40.6	1	53.3	11.3	1
SMBJ36A	SMBJ36CA	MP	CP	36	40	44.2	1	58.1	10.4	1
SMBJ40A	SMBJ40CA	MR	CR	40	44.4	49.1	1	64.5	9.3	1
SMBJ43A	SMBJ43CA	MT	CT	43	47.8	52.8	1	69.4	8.7	1
SMBJ45A	SMBJ45CA	MV	CV	45	50	55.3	1	72.7	8.3	1
SMBJ48A	SMBJ48CA	MX	CX	48	53.3	58.9	1	77.4	7.7	1
SMBJ51A	SMBJ51CA	MZ	CZ	51	56.7	62.7	1	82.4	7.3	1
SMBJ54A	SMBJ54CA	NE	DE	54	60	66.3	1	87.1	6.9	1
SMBJ58A	SMBJ58CA	NG	DG	58	64.4	71.2	1	93.6	6.5	1
SMBJ60A	SMBJ60CA	NK	DK	60	66.7	73.7	1	96.8	6.2	1
SMBJ64A	SMBJ64CA	NM	DM	64	71.1	78.6	1	103.0	5.9	1

Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
UNI	BI	UNI	BI	V _{RWM}	V _{BR @IT}		I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
				V	Min(V)	Max(V)	mA	V	A	μ A
SMBJ70A	SMBJ70CA	NP	DP	70	77.8	86	1	113	5.3	1
SMBJ75A	SMBJ75CA	NR	DR	75	83.3	92.1	1	121	5	1
SMBJ78A	SMBJ78CA	NT	DT	78	86.7	95.8	1	126	4.7	1
SMBJ85A	SMBJ85CA	NV	DV	85	94.4	104	1	137	4.4	1
SMBJ90A	SMBJ90CA	NX	DX	90	100	111	1	146	4.1	1
SMBJ100A	SMBJ100CA	NZ	DZ	100	111	123	1	162	3.7	1
SMBJ110A	SMBJ110CA	PE	EE	110	122	135	1	177	3.4	1
SMBJ120A	SMBJ120CA	PG	EG	120	133	147	1	193	3.1	1
SMBJ130A	SMBJ130CA	PK	EK	130	144	159	1	209	2.9	1
SMBJ150A	SMBJ150CA	PM	EM	150	167	185	1	243	2.5	1
SMBJ160A	SMBJ160CA	PP	EP	160	178	197	1	259	2.3	1
SMBJ170A	SMBJ170CA	PR	ER	170	189	209	1	275	2.2	1
SMBJ180A	SMBJ180CA	PT	ET	180	201	222	1	292	2.1	1
SMBJ190A	SMBJ190CA	PV	EV	190	209	243	1	306	2	1
SMBJ200A	SMBJ200CA	PX	EX	200	224	247	1	324	1.9	1
SMBJ210A	SMBJ210CA	PZ	EZ	210	237	268	1	340	1.8	1
SMBJ220A	SMBJ220CA	QE	FE	220	246	272	1	356	1.7	1
SMBJ250A	SMBJ250CA	QG	FG	250	279	309	1	405	1.5	1
SMBJ300A	SMBJ300CA	QK	FK	300	335	371	1	486	1.3	1
SMBJ350A	SMBJ350CA	QM	FM	350	391	432	1	567	1.1	1
SMBJ400A	SMBJ400CA	QP	FP	400	447	494	1	648	0.9	1
SMBJ440A	SMBJ440CA	QR	FR	440	492	543	1	713	0.9	1
SMBJ500A	SMBJ500CA	QV	FV	500	558	618	1	762	0.8	1

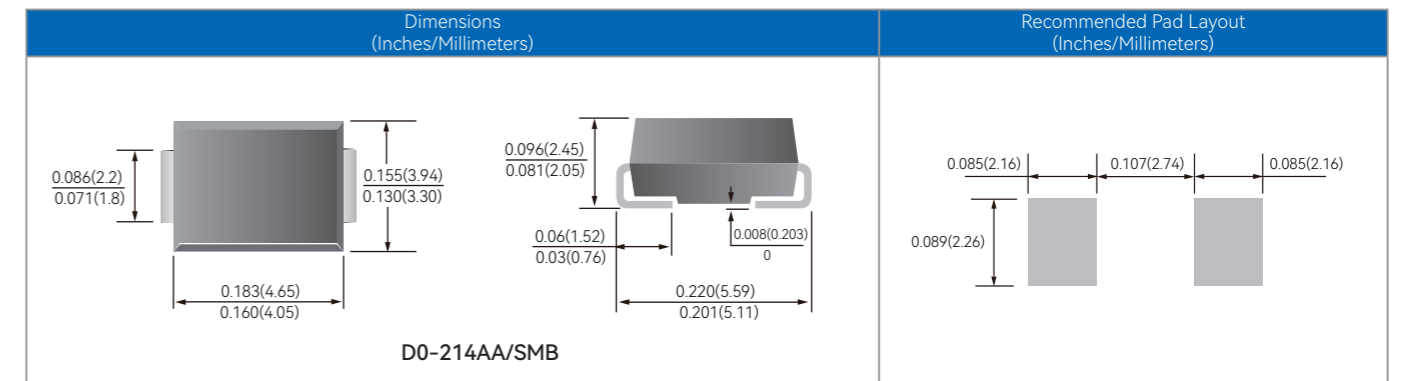
Notes: For bidirectional type having VRWM of 10V and less, the IR limit is double.



Type Number		Marking		Reverse Stand-Off Voltage V_{RWM}	Breakdown Voltage $V_{BR}@I_T$		Test Current I_T	Max Clamping Voltage 10/1000 μ s $V_C@I_{PP}$	Peak Pulse Current 10/1000 μ s I_{PP}	Reverse Leakage $I_R@V_{RWM}$
UNI	BI	UNI	BI		V	Min(V)				
1000W Transient Voltage Suppressors Diodes(SMB/DO-214AA)										
1.0SMBJ5.0A	1.0SMBJ5.0CA	AKE	AAE	5	6.4	7	10	9.2	108.7	800
1.0SMBJ6.0A	1.0SMBJ6.0CA	AKG	AAG	6	6.67	7.37	10	10.3	97.1	800
1.0SMBJ6.5A	1.0SMBJ6.5CA	AKK	AAK	6.5	7.22	7.98	10	11.2	89.3	500
1.0SMBJ7.0A	1.0SMBJ7.0CA	AKM	AAM	7	7.78	8.6	10	12	83.3	200
1.0SMBJ7.5A	1.0SMBJ7.5CA	AKP	AAP	7.5	8.33	9.21	1	12.9	73.5	100
1.0SMBJ8.0A	1.0SMBJ8.0CA	AKR	AAR	8	8.89	9.83	1	13.6	73.5	50
1.0SMBJ8.5A	1.0SMBJ8.5CA	AKT	AAT	8.5	9.44	10.4	1	14.4	69.4	20
1.0SMBJ9.0A	1.0SMBJ9.0CA	AKV	AAV	9	10	11.1	1	15.4	64.9	10
1.0SMBJ10A	1.0SMBJ10CA	AKX	AAX	10	11.1	12.3	1	17	58.8	5
1.0SMBJ11A	1.0SMBJ11CA	AKZ	AAZ	11	12.2	13.5	1	18.2	54.9	1
1.0SMBJ12A	1.0SMBJ12CA	ALE	ABE	12	13.3	14.7	1	19.9	50.3	1
1.0SMBJ13A	1.0SMBJ13CA	ALG	ABG	13	14.4	15.9	1	21.5	46.5	1
1.0SMBJ14A	1.0SMBJ14CA	ALK	ABK	14	15.6	17.2	1	23.2	43.1	1
1.0SMBJ15A	1.0SMBJ15CA	ALM	ABM	15	16.7	18.5	1	24.4	41.0	1
1.0SMBJ16A	1.0SMBJ16CA	ALP	ABP	16	17.8	19.7	1	26	38.5	1
1.0SMBJ17A	1.0SMBJ17CA	ALR	ABR	17	18.9	20.9	1	27.6	36.2	1
1.0SMBJ18A	1.0SMBJ18CA	ALT	ABT	18	20	22.1	1	29.2	34.2	1
1.0SMBJ20A	1.0SMBJ20CA	ALV	ABV	20	22.2	24.5	1	32.4	30.9	1
1.0SMBJ22A	1.0SMBJ22CA	ALX	ABX	22	24.4	26.9	1	35.5	28.2	1
1.0SMBJ24A	1.0SMBJ24CA	ALZ	ABZ	24	26.7	29.5	1	38.9	25.7	1
1.0SMBJ26A	1.0SMBJ26CA	AME	ACE	26	28.9	31.9	1	42.1	23.8	1
1.0SMBJ28A	1.0SMBJ28CA	AMG	ACG	28	31.1	34.4	1	45.4	22.0	1
1.0SMBJ30A	1.0SMBJ30CA	AMK	ACK	30	33.3	36.8	1	48.4	20.7	1
1.0SMBJ33A	1.0SMBJ33CA	AMM	ACM	33	36.7	40.6	1	53.3	18.8	1
1.0SMBJ36A	1.0SMBJ36CA	AMP	ACP	36	40	44.2	1	58.1	17.2	1
1.0SMBJ40A	1.0SMBJ40CA	AMR	ACR	40	44.4	49.1	1	64.5	15.5	1
1.0SMBJ43A	1.0SMBJ43CA	AMT	ACT	43	47.8	52.8	1	69.4	14.4	1
1.0SMBJ45A	1.0SMBJ45CA	AMV	ACV	45	50	55.3	1	72.7	13.8	1
1.0SMBJ48A	1.0SMBJ48CA	AMX	ACX	48	53.3	58.9	1	77.4	12.9	1
1.0SMBJ51A	1.0SMBJ51CA	AMZ	ACZ	51	56.7	62.7	1	82.4	12.1	1
1.0SMBJ54A	1.0SMBJ54CA	ANE	ADE	54	60	66.3	1	87.1	11.5	1
1.0SMBJ58A	1.0SMBJ58CA	ANG	ADG	58	64.4	71.2	1	93.6	10.7	1
1.0SMBJ60A	1.0SMBJ60CA	ANK	ADK	60	66.7	73.7	1	96.8	10.3	1
1.0SMBJ64A	1.0SMBJ64CA	ANM	ADM	64	71.1	78.6	1	103	9.7	1
1.0SMBJ70A	1.0SMBJ70CA	ANP	ADP	70	77.8	86	1	113	8.8	1

Type Number		Marking		Reverse Stand-Off Voltage V_{RWM}	Breakdown Voltage $V_{BR}@I_T$		Test Current I_T	Max Clamping Voltage 10/1000 μ s $V_C@I_{PP}$	Peak Pulse Current 10/1000 μ s I_{PP}	Reverse Leakage $I_R@V_{RWM}$
UNI	BI	UNI	BI		V	Min(V)				
1000W Transient Voltage Suppressors Diodes(SMB/DO-214AA)										
1.0SMBJ75A	1.0SMBJ75CA	ANR	ADR	75	83.3	92.1	1	121	8.3	1
1.0SMBJ78A	1.0SMBJ78CA	ANT	ADT	78	86.7	95.8	1	126	7.9	1
1.0SMBJ85A	1.0SMBJ85CA	ANV	ADV	85	94.4	104	1	137	7.3	1
1.0SMBJ90A	1.0SMBJ90CA	ANX	ADX	90	100	111	1	146	6.8	1
1.0SMBJ100A	1.0SMBJ100CA	ANZ	ADZ	100	111	123	1	162	6.2	1
1.0SMBJ110A	1.0SMBJ110CA	APE	AEE	110	122	135	1	177	5.6	1
1.0SMBJ120A	1.0SMBJ120CA	APG	AEG	120	133	147	1	193	5.2	1
1.0SMBJ130A	1.0SMBJ130CA	APK	AEK	130	144	159	1	209	4.8	1
1.0SMBJ150A	1.0SMBJ150CA	APM	AEM	150	167	185	1	243	4.1	1
1.0SMBJ160A	1.0SMBJ160CA	APP	EP	160	178	197	1	259	3.9	1
1.0SMBJ170A	1.0SMBJ170CA	APR	AER	170	189	209	1	275	3.6	1
1.0SMBJ180A	1.0SMBJ180CA	APT	AET	180	201	222	1	292	3.4	1
1.0SMBJ190A	1.0SMBJ190CA	APV	AEV	190	209	243	1	306	3.2	1
1.0SMBJ200A	1.0SMBJ200CA	APX	AEX	200	224	247	1	324	3.1	1
1.0SMBJ220A	1.0SMBJ220CA	AQE	AFE	220	246	272	1	356	2.8	1

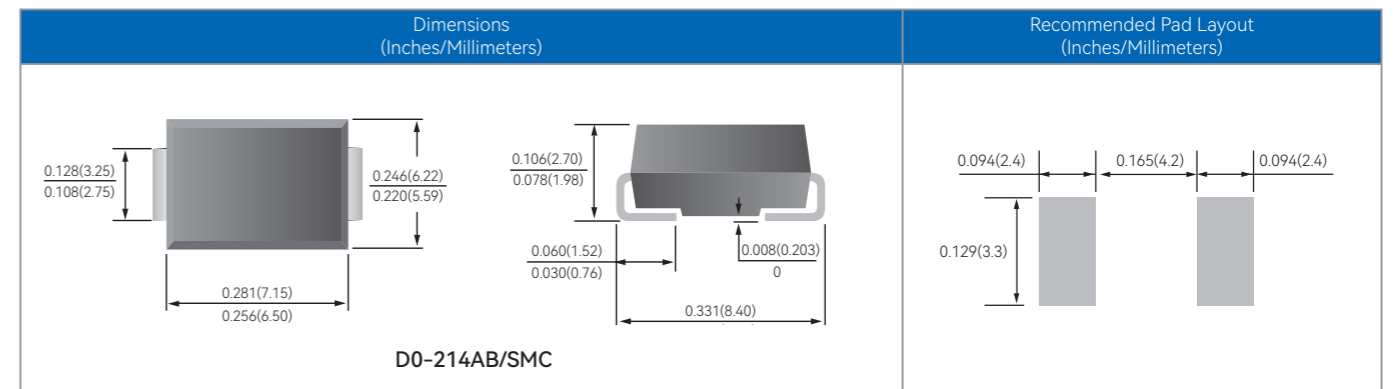
Notes: For bidirectional type having VR of 10V and less, the IR limit is double.



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
1500W Transient Voltage Suppressors Diodes(SMC/DO-214AB)										
SMCJ5.0A	SMCJ5.0CA	GDE	BDE	5	6.4	7	10	9.2	163	300
SMCJ6.0A	SMCJ6.0CA	GDG	BDG	6	6.67	7.37	10	10.3	145.6	250
SMCJ6.5A	SMCJ6.5CA	GDK	BDK	6.5	7.22	7.98	10	11.2	133.9	150
SMCJ7.0A	SMCJ7.0CA	GDM	BDM	7	7.78	8.6	10	12.0	125	200
SMCJ7.5A	SMCJ7.5CA	GDP	BDP	7.5	8.33	9.21	1	12.9	116.3	100
SMCJ8.0A	SMCJ8.0CA	GDR	BDR	8	8.89	9.83	1	13.6	110.3	25
SMCJ8.5A	SMCJ8.5CA	GDT	BDT	8.5	9.44	10.4	1	14.4	104.2	20
SMCJ9.0A	SMCJ9.0CA	GDV	BDV	9	10	11.1	1	15.4	97.4	15
SMCJ10A	SMCJ10CA	GDX	BDX	10	11.1	12.3	1	17.0	88.2	5
SMCJ11A	SMCJ11CA	GDZ	BDZ	11	12.2	13.5	1	18.2	82.4	1
SMCJ12A	SMCJ12CA	GEE	BEE	12	13.3	14.7	1	19.9	75.4	1
SMCJ13A	SMCJ13CA	GEG	BEG	13	14.4	15.9	1	21.5	69.8	1
SMCJ14A	SMCJ14CA	GEK	BEK	14	15.6	17.2	1	23.2	64.7	1
SMCJ15A	SMCJ15CA	GEM	BEM	15	16.7	18.5	1	24.4	61.5	1
SMCJ16A	SMCJ16CA	GEP	BEP	16	17.8	19.7	1	26	57.7	1
SMCJ17A	SMCJ17CA	GER	BER	17	18.9	20.9	1	27.6	54.3	1
SMCJ18A	SMCJ18CA	GET	BET	18	20	22.1	1	29.2	51.4	1
SMCJ20A	SMCJ20CA	GEV	BEV	20	22.2	24.5	1	32.4	46.3	1
SMCJ22A	SMCJ22CA	GEX	BEX	22	24.4	26.9	1	35.5	42.3	1
SMCJ24A	SMCJ24CA	GEZ	BEZ	24	26.7	29.5	1	38.9	38.6	1
SMCJ26A	SMCJ26CA	GFE	BFE	26	28.9	31.9	1	42.1	35.6	1
SMCJ28A	SMCJ28CA	GFG	BFG	28	31.1	34.4	1	45.4	33.0	1
SMCJ30A	SMCJ30CA	GFK	BFK	30	33.3	36.8	1	48.4	31.0	1
SMCJ33A	SMCJ33CA	GFM	BFM	33	36.7	40.6	1	53.3	28.1	1
SMCJ36A	SMCJ36CA	GFP	BFP	36	40	44.2	1	58.1	25.8	1
SMCJ40A	SMCJ40CA	GFR	BFR	40	44.4	49.1	1	64.5	23.3	1
SMCJ43A	SMCJ43CA	GFT	BFT	43	47.8	52.8	1	69.4	21.6	1
SMCJ45A	SMCJ45CA	GFV	BFV	45	50	55.3	1	72.7	20.6	1
SMCJ48A	SMCJ48CA	GJT	BJT	48	53.3	58.9	1	77.4	19.4	1
SMCJ51A	SMCJ51CA	GJV	BJV	51	56.7	62.7	1	82.4	18.2	1
SMCJ54A	SMCJ54CA	GFX	BFX	54	60	66.3	1	87.1	17.2	1
SMCJ58A	SMCJ58CA	GFZ	BFZ	58	64.4	71.2	1	93.6	16.0	1
SMCJ60A	SMCJ60CA	GGE	BGE	60	66.7	73.7	1	96.8	15.5	1
SMCJ64A	SMCJ64CA	GGG	BGG	64	71.1	78.6	1	103	14.6	1
SMCJ70A	SMCJ70CA	GGK	BGK	70	77.8	86	1	113	13.3	1

Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
SMCJ75A	SMCJ75CA	GGM	BGM	75	83.3	92.1	1	121	12.4	1
SMCJ78A	SMCJ78CA	GGP	BGP	78	86.7	95.8	1	126	11.9	1
SMCJ85A	SMCJ85CA	GGR	BGR	85	94.4	104	1	137	10.9	1
SMCJ90A	SMCJ90CA	GGT	BGT	90	100	111	1	146	10.3	1
SMCJ100A	SMCJ100CA	GGV	BGV	100	111	123	1	162	9.3	1
SMCJ110A	SMCJ110CA	GGX	BGX	110	122	135	1	177	8.5	1
SMCJ120A	SMCJ120CA	GGZ	BGZ	120	133	147	1	193	7.8	1
SMCJ130A	SMCJ130CA	GHE	BHE	130	144	159	1	209	7.2	1
SMCJ150A	SMCJ150CA	GHG	BHG	150	167	185	1	243	6.2	1
SMCJ160A	SMCJ160CA	GHK	BHK	160	178	197	1	259	5.8	1
SMCJ170A	SMCJ170CA	GHM	BHM	170	189	209	1	275	5.5	1
SMCJ180A	SMCJ180CA	GHP	BHP	180	201	220	1	292	5.2	1
SMCJ190A	SMCJ190CA	GHR	BHR	190	209	243	1	308	4.8	1
SMCJ200A	SMCJ200CA	GHX	BHX	200	224	247	1	324	4.6	1
SMCJ210A	SMCJ210CA	GHZ	BHZ	210	231	268	1	340	4.4	1
SMCJ220A	SMCJ220CA	GJE	BJE	220	246	272	1	356	4.2	1
SMCJ250A	SMCJ250CA	GJG	BJG	250	279	309	1	405	3.7	1
SMCJ300A	SMCJ300CA	GJK	BJK	300	335	371	1	486	3.1	1
SMCJ350A	SMCJ350CA	GJM	BJM	350	391	432	1	567	2.6	1
SMCJ400A	SMCJ400CA	GJP	BJP	400	447	494	1	648	2.3	1
SMCJ440A	SMCJ440CA	GJR	BJR	440	492	543	1	713	2.1	1

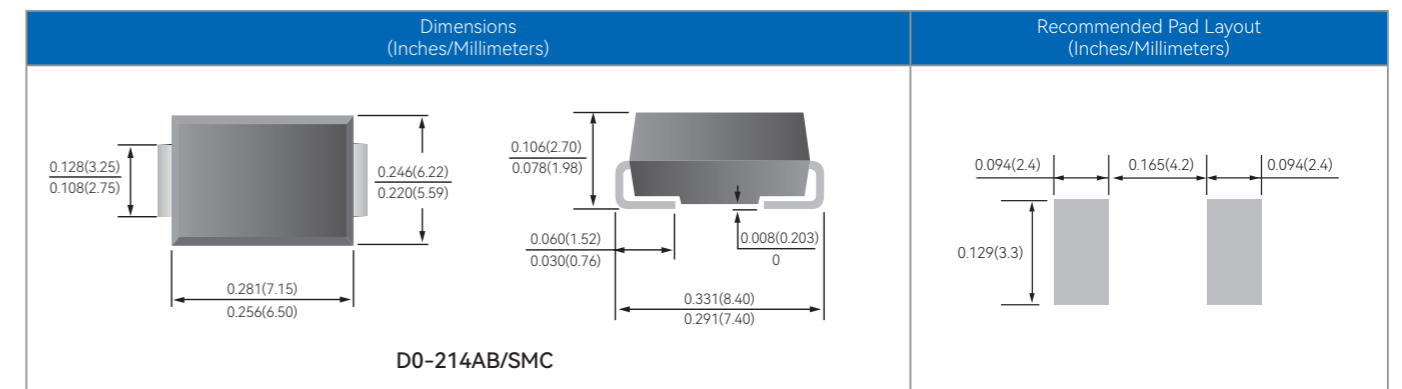
Notes: For bidirectional type having VRWM of 10V and less, the IR limit is double.



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
3000W Transient Voltage Suppressors Diodes(SMC/DO-214AB)										
SMDJ5.0A	SMDJ5.0CA	RDE	DDE	5	6.4	7	10	9.2	326	800
SMDJ6.0A	SMDJ6.0CA	RDG	DDG	6	6.67	7.37	10	10.3	291.26	800
SMDJ6.5A	SMDJ6.5CA	RDK	DDK	6.5	7.22	7.98	10	11.2	267.86	500
SMDJ7.0A	SMDJ7.0CA	PDM	DDM	7	7.78	8.6	10	12.0	250	200
SMDJ7.5A	SMDJ7.5CA	PDP	DDP	7.5	8.33	9.21	1	12.9	232.56	100
SMDJ8.0A	SMDJ8.0CA	PDR	DDR	8	8.89	9.83	1	13.6	220.59	50
SMDJ8.5A	SMDJ8.5CA	PDT	DDT	8.5	9.44	10.4	1	14.4	208.33	20
SMDJ9.0A	SMDJ9.0CA	PDV	DDV	9	10	11.1	1	15.4	194.81	10
SMDJ10A	SMDJ10CA	PDX	DDX	10	11.1	12.3	1	17.0	176.47	5
SMDJ11A	SMDJ11CA	PDZ	DDZ	11	12.2	13.5	1	18.2	168.84	2
SMDJ12A	SMDJ12CA	PEE	DEE	12	13.3	14.7	1	19.9	150.75	2
SMDJ13A	SMDJ13CA	PEG	DEG	13	14.4	15.9	1	21.5	139.54	2
SMDJ14A	SMDJ14CA	PEK	DEK	14	15.6	17.2	1	23.2	129.4	2
SMDJ15A	SMDJ15CA	PEM	DEM	15	16.7	18.5	1	24.4	122.95	2
SMDJ16A	SMDJ16CA	PEP	DEP	16	17.8	19.7	1	26.0	115.38	2
SMDJ17A	SMDJ17CA	PER	DER	17	18.9	20.9	1	27.6	108.7	2
SMDJ18A	SMDJ18CA	PET	DET	18	20	22.1	1	29.2	102.74	2
SMDJ19A	SMDJ19CA	PEB	DEB	19	21.1	23.3	1	30.8	97.47	2
SMDJ20A	SMDJ20CA	PEV	DEV	20	22.2	24.5	1	32.4	92.59	2
SMDJ22A	SMDJ22CA	PEX	DEX	22	24.4	26.9	1	35.5	84.51	2
SMDJ24A	SMDJ24CA	PEZ	DEZ	24	26.7	29.5	1	38.9	77.12	2
SMDJ26A	SMDJ26CA	PFE	DFE	26	28.9	31.9	1	42.1	71.26	2
SMDJ28A	SMDJ28CA	PFG	DFG	28	31.1	34.4	1	45.4	66.08	2
SMDJ30A	SMDJ30CA	PFK	DFK	30	33.3	36.8	1	48.4	61.98	2
SMDJ33A	SMDJ33CA	PFM	DFM	33	36.7	40.6	1	53.3	56.29	2
SMDJ36A	SMDJ36CA	PFP	DFP	36	40	44.2	1	58.1	51.64	2
SMDJ40A	SMDJ40CA	PFR	DFR	40	44.4	49.1	1	64.5	46.51	2
SMDJ43A	SMDJ43CA	PFT	DFT	43	47.8	52.8	1	69.4	43.23	2
SMDJ45A	SMDJ45CA	PFV	DFV	45	50	55.3	1	72.7	41.27	2
SMDJ48A	SMDJ48CA	PFX	DFX	48	53.3	58.9	1	77.4	38.76	2
SMDJ51A	SMDJ51CA	PFZ	DFZ	51	56.7	62.7	1	82.4	36.41	2
SMDJ54A	SMDJ54CA	PGE	DGE	54	60	66.3	1	87.1	34.4	2
SMDJ58A	SMDJ58CA	PGG	DGG	58	64.4	71.2	1	93.6	32.05	2
SMDJ60A	SMDJ60CA	PGK	DGK	60	66.7	73.7	1	96.8	31.0	2
SMDJ64A	SMDJ64CA	PGM	DGM	64	71.1	78.6	1	103	29.13	2

Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
SMDJ70A	SMDJ70CA	PGP	DGP	70	77.8	86	1	113	26.55	2
SMDJ75A	SMDJ75CA	PGR	DGR	75	83.3	92.1	1	121	24.79	2
SMDJ78A	SMDJ78CA	PGT	DGT	78	86.7	95.8	1	126	23.81	2
SMDJ80A	SMDJ80CA	PGB	DGB	80	88.8	97.6	1	129.6	23.15	2
SMDJ85A	SMDJ85CA	PGV	DGV	85	94.4	104	1	137	21.9	2
SMDJ90A	SMDJ90CA	PGX	DGX	90	100	111	1	146	20.55	2
SMDJ100A	SMDJ100CA	PGZ	DGZ	100	111	123	1	162	18.52	2
SMDJ110A	SMDJ110CA	PHE	DHE	110	122	135	1	177	16.95	2
SMDJ120A	SMDJ120CA	PHG	DHG	120	133	147	1	193	15.54	2
SMDJ130A	SMDJ130CA	PHK	DHK	130	144	159	1	209	14.35	2
SMDJ140A	SMDJ140CA	PHB	DHB	140	155	171	1	226.8	13.23	2
SMDJ150A	SMDJ150CA	PHM	DHM	150	167	185	1	243	12.35	2
SMDJ160A	SMDJ160CA	PHP	DHP	160	178	197	1	259	11.58	2
SMDJ170A	SMDJ170CA	PHR	DHR	170	189	209	1	275	10.91	2
SMDJ180A	SMDJ180CA	PHT	DHT	180	200	220	1	291.6	10.29	2
SMDJ190A	SMDJ190CA	PHV	DHV	190	211	232	1	307.8	9.75	2
SMDJ200A	SMDJ200CA	PHW	DHW	200	224	247	1	324	9.26	2
SMDJ220A	SMDJ220CA	PHX	DHX	220	246	272	1	356	8.43	2
SMDJ250A	SMDJ250CA	PHZ	DHZ	250	279	309	1	405	7.41	2
SMDJ300A	SMDJ300CA	PJE	DJE	300	335	371	1	486	6.17	2
SMDJ350A	SMDJ350CA	PJG	DJG	350	391	432	1	567	5.29	2
SMDJ400A	SMDJ400CA	PJK	DJK	400	447	494	1	648	4.63	2
SMDJ440A	SMDJ440CA	PJM	DJM	440	492	543	1	713	4.21	2

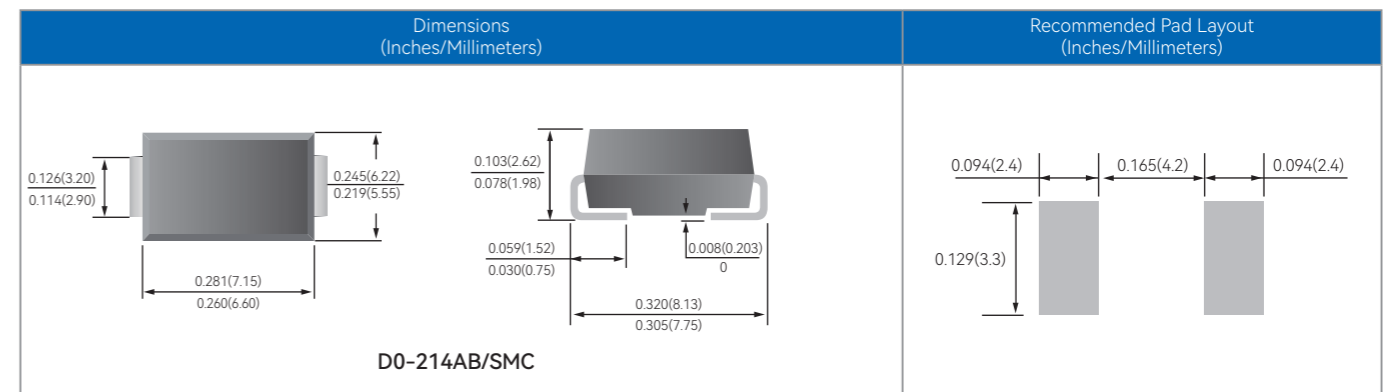
Notes: For bidirectional type having VRWM of 10V and less, the IR limit is double.



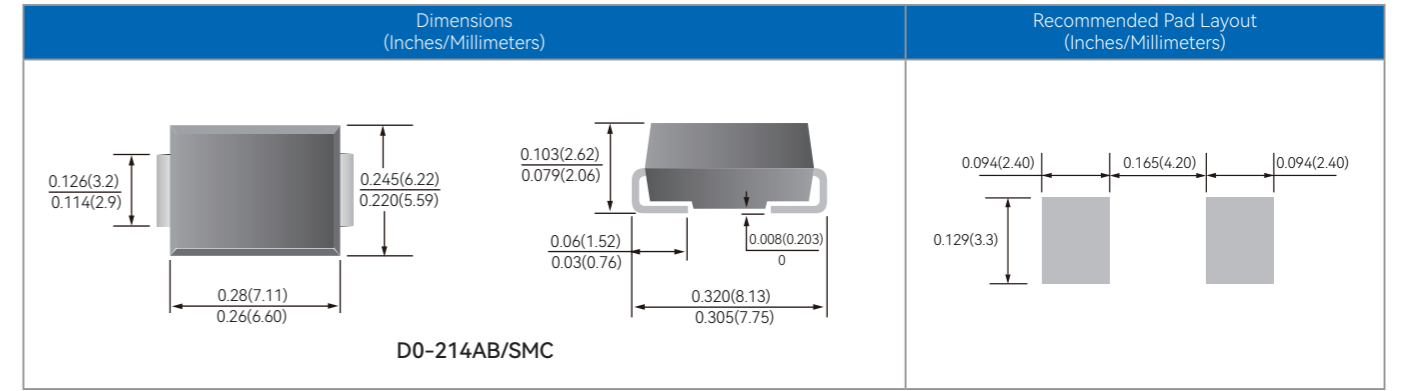
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
5000W Transient Voltage Suppressors Diodes(SMC/DO-214AB)										
5.0SMDJ11A	5.0SMDJ11CA	5PDX	5BDX	11	12.2	13.5	10	18.2	274.73	800
5.0SMDJ12A	5.0SMDJ12CA	5PDZ	5BDZ	12	13.3	14.7	10	19.9	251.26	800
5.0SMDJ13A	5.0SMDJ13CA	5PEE	5BEE	13	14.4	15.9	10	21.5	232.56	500
5.0SMDJ14A	5.0SMDJ14CA	5PEG	5BEG	14	15.6	17.2	10	23.2	215.52	200
5.0SMDJ15A	5.0SMDJ15CA	5PEK	5BEK	15	16.7	18.5	1	24.4	204.92	100
5.0SMDJ16A	5.0SMDJ16CA	5PEM	5BEM	16	17.8	19.7	1	26	192.31	50
5.0SMDJ17A	5.0SMDJ17CA	5PEP	5BEP	17	18.9	20.9	1	27.6	181.16	20
5.0SMDJ18A	5.0SMDJ18CA	5PER	5BER	18	20	22.1	1	29.2	171.23	10
5.0SMDJ19A	5.0SMDJ19CA	5PET	5BET	19	21.1	23.3	1	30.8	162.44	10
5.0SMDJ20A	5.0SMDJ20CA	5PEV	5BEV	20	22.2	24.5	1	32.4	154.32	5
5.0SMDJ22A	5.0SMDJ22CA	5PEX	5BEX	22	24.4	26.9	1	35.5	140.85	5
5.0SMDJ24A	5.0SMDJ24CA	5PFZ	5BFZ	24	26.7	29.5	1	38.9	128.53	5
5.0SMDJ26A	5.0SMDJ26CA	5PFE	5BFE	26	28.9	31.9	1	42.1	118.76	5
5.0SMDJ28A	5.0SMDJ28CA	5PFG	5BFG	28	31.1	34.4	1	45.4	110.13	5
5.0SMDJ30A	5.0SMDJ30CA	5PFK	5BFK	30	33.3	36.8	1	48.4	103.31	5
5.0SMDJ33A	5.0SMDJ33CA	5PFM	5BFM	33	36.7	40.6	1	53.3	93.81	5
5.0SMDJ36A	5.0SMDJ36CA	5PFP	5BFP	36	40	44.2	1	58.1	86.06	5
5.0SMDJ40A	5.0SMDJ40CA	5PFR	5BFR	40	44.4	49.1	1	64.5	77.52	5
5.0SMDJ43A	5.0SMDJ43CA	5PFT	5BFT	43	47.8	52.8	1	69.4	72.05	5
5.0SMDJ45A	5.0SMDJ45CA	5PFV	5BFV	45	50	55.3	1	72.7	68.78	5
5.0SMDJ48A	5.0SMDJ48CA	5PFX	5BFX	48	53.3	58.9	1	77.4	64.6	5
5.0SMDJ51A	5.0SMDJ51CA	5PFZ	5BFZ	51	56.7	62.7	1	82.4	60.68	5
5.0SMDJ54A	5.0SMDJ54CA	5PGE	5BGE	54	60	66.3	1	87.1	57.41	5
5.0SMDJ58A	5.0SMDJ58CA	5PGG	5BGG	58	64.4	71.2	1	93.6	53.42	5
5.0SMDJ60A	5.0SMDJ60CA	5PGK	5BGK	60	66.7	73.7	1	96.8	51.65	5
5.0SMDJ64A	5.0SMDJ64CA	5PGM	5BGM	64	71.1	78.6	1	103	48.54	5
5.0SMDJ70A	5.0SMDJ70CA	5PGP	5BGP	70	77.8	86	1	113	44.25	5
5.0SMDJ75A	5.0SMDJ75CA	5PGR	5BGR	75	83.3	92.1	1	121	41.32	5
5.0SMDJ78A	5.0SMDJ78CA	5PGT	5BGT	78	86.7	95.8	1	126	39.68	5
5.0SMDJ85A	5.0SMDJ85CA	5PGV	5BGV	85	94.4	104	1	137	36.5	5
5.0SMDJ90A	5.0SMDJ90CA	5PGX	5BGX	90	100	111	1	146	34.25	5
5.0SMDJ100A	5.0SMDJ100CA	5PHZ	5BHZ	100	111	123	1	162	30.86	5
5.0SMDJ110A	5.0SMDJ110CA	5PHE	5BHE	110	122	135	1	177	28.25	5
5.0SMDJ120A	5.0SMDJ120CA	5PHG	5BHG	120	133	147	1	193	25.91	5
5.0SMDJ130A	5.0SMDJ130CA	5PHK	5BHK	130	144	159	1	209	23.92	5

Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
					V _{RWM}	V _{BR @IT}				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
5.0SMDJ140A	5.0SMDJ140CA	5PHB	5BHB	140	155	171	1	226.8	22.05	5
5.0SMDJ150A	5.0SMDJ150CA	5PHM	5BHM	150	167	185	1	243	20.58	5
5.0SMDJ160A	5.0SMDJ160CA	5PHP	5BHP	160	178	197	1	259	19.31	5
5.0SMDJ170A	5.0SMDJ170CA	5PHR	5BHR	170	189	209	1	275	18.18	5
5.0SMDJ180A	5.0SMDJ180CA	5PHT	5BHT	180	200	220	1	291.6	17.15	5
5.0SMDJ190A	5.0SMDJ190CA	5PHV	5BHV	190	211	232	1	307.8	16.24	5
5.0SMDJ200A	5.0SMDJ200CA	5PHW	5BHW	200	224	247	1	324	15.43	5
5.0SMDJ220A	5.0SMDJ220CA	5PHX	5BHX	220	246	272	1	356	14.04	5
5.0SMDJ250A	5.0SMDJ250CA	5PHZ	5BHZ	250	279	309	1	405	12.35	5
5.0SMDJ300A	5.0SMDJ300CA	5PJE	5BJE	300	335	371	1	486	10.29	5
5.0SMDJ350A	5.0SMDJ350CA	5PJG	5BJG	350	391	432	1	567	8.82	5
5.0SMDJ400A	5.0SMDJ400CA	5PJK	5BJK	400	447	494	1	648	7.72	5
5.0SMDJ440A	5.0SMDJ440CA	5PJM	5BJM	440	492	543	1	713	7.01	5

Notes: For bidirectional type having VRWM of 10V and less, the IR limit is double.



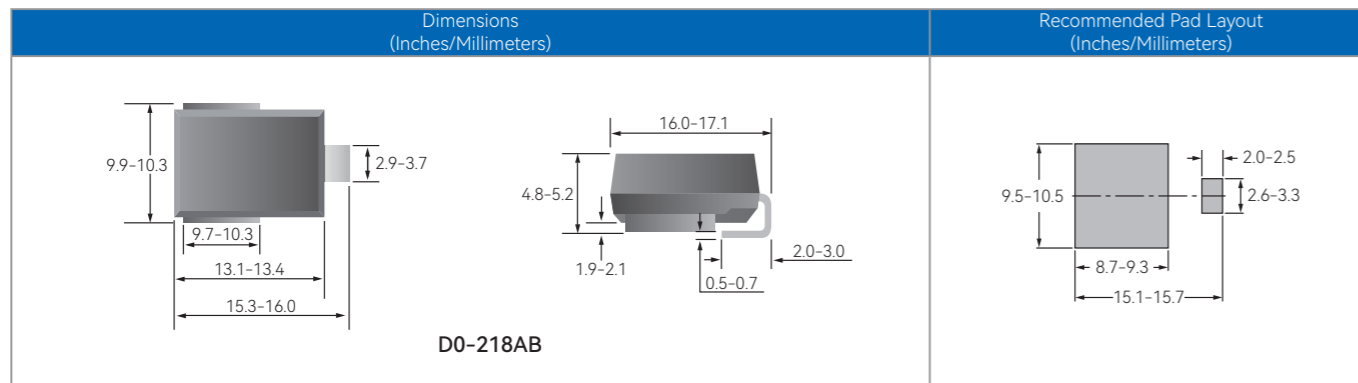
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
8.0SMDJ12A	8.0SMDJ12CA	8PEP	8BEP	12	13.3	14.7	10	19.9	402.1	800
8.0SMDJ13A	8.0SMDJ13CA	8PEQ	8BEQ	13	14.4	15.9	10	21.5	372.1	500
8.0SMDJ14A	8.0SMDJ14CA	8PER	8BER	14	15.6	17.2	10	23.2	344.9	200
8.0SMDJ15A	8.0SMDJ15CA	8PES	8BES	15	16.7	18.5	1	24.4	327.9	100
8.0SMDJ16A	8.0SMDJ16CA	8PET	8BET	16	17.8	19.7	1	26.0	307.7	50
8.0SMDJ17A	8.0SMDJ17CA	8PEU	8BEU	17	18.9	20.9	1	27.6	290.0	20
8.0SMDJ18A	8.0SMDJ18CA	8PEV	8BEV	18	20	22.1	1	29.2	274.0	10
8.0SMDJ20A	8.0SMDJ20CA	8PEW	8BEW	20	22.2	24.5	1	32.4	247.0	5
8.0SMDJ22A	8.0SMDJ22CA	8PEX	8BEX	22	24.4	26.9	1	35.5	225.4	5
8.0SMDJ24A	8.0SMDJ24CA	8PEZ	8BEZ	24	26.7	29.5	1	38.9	205.7	5
8.0SMDJ26A	8.0SMDJ26CA	8PFE	8BFE	26	28.9	31.9	1	42.1	190.1	5
8.0SMDJ28A	8.0SMDJ28CA	8PFG	8BFG	28	31.1	34.4	1	45.4	176.2	5
8.0SMDJ30A	8.0SMDJ30CA	8PFK	8BFK	30	33.3	36.8	1	48.4	165.3	5
8.0SMDJ33A	8.0SMDJ33CA	8PFM	8BFM	33	36.7	40.6	1	53.3	150.1	5
8.0SMDJ36A	8.0SMDJ36CA	8PFP	8BFP	36	40	44.2	1	58.1	137.8	5
8.0SMDJ40A	8.0SMDJ40CA	8PFR	8BFR	40	44.4	49.1	1	64.5	124.1	5
8.0SMDJ43A	8.0SMDJ43CA	8PFT	8BFT	43	47.8	52.8	1	69.4	115.3	5
8.0SMDJ45A	8.0SMDJ45CA	8PFV	8BFV	45	50	55.3	1	72.7	110.1	5
8.0SMDJ48A	8.0SMDJ48CA	8PFX	8BFX	48	53.3	58.9	1	77.4	103.4	5
8.0SMDJ51A	8.0SMDJ51CA	8PFZ	8BFZ	51	56.7	62.7	1	82.4	97.1	5
8.0SMDJ54A	8.0SMDJ54CA	8PGE	8BGE	54	60	66.3	1	87.1	92.0	5
8.0SMDJ58A	8.0SMDJ58CA	8PGG	8BGG	58	64.4	71.2	1	93.6	85.5	5
8.0SMDJ60A	8.0SMDJ60CA	8PGK	8BGK	60	66.7	73.7	1	96.8	82.7	5
8.0SMDJ64A	8.0SMDJ64CA	8PGM	8BGM	64	71.1	78.6	1	103.0	77.7	5
8.0SMDJ70A	8.0SMDJ70CA	8PGP	8BGP	70	77.8	86	1	113	71.0	5
8.0SMDJ75A	8.0SMDJ75CA	8PGR	8BGR	75	83.3	92.1	1	121	66.2	5
8.0SMDJ78A	8.0SMDJ78CA	8PGT	8BGT	78	86.7	95.8	1	126	63.5	5
8.0SMDJ85A	8.0SMDJ85CA	8PGV	8BGV	85	94.4	104	1	137	58.4	5
8.0SMDJ90A	8.0SMDJ90CA	8PGX	8BGX	90	100	111	1	146	55.0	5
8.0SMDJ100A	8.0SMDJ100CA	8PGZ	8BGZ	100	111	123	1	162	49.4	5
8.0SMDJ110A	8.0SMDJ110CA	8PHE	8BHE	110	122	135	1	177	45.2	5



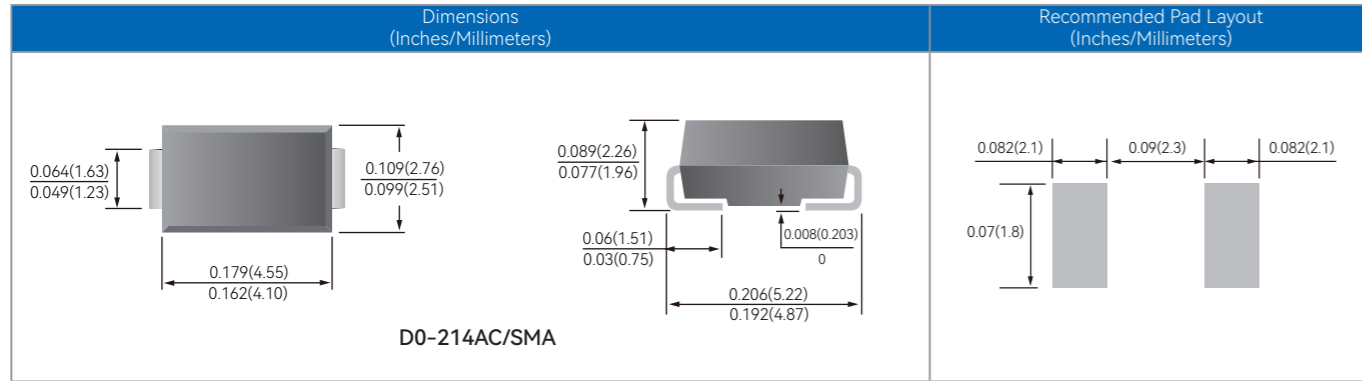
TVS

TVS

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max. Clamping Voltage	Max. Peak Pulse Current	Max. Reverse Leakage	Max. $T_J=150$
			$V_{BR}@I_T$						
			Min	Max					
UNI	BI	V	V	V	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_R$	$I_R@V_R$
SM8S14A	SM8S14CA	14.0	15.60	17.20	5	23.2	284.00	10	150
SM8S15A	SM8S15CA	15.0	16.70	18.50	5	24.4	270.00	10	150
SM8S16A	SM8S16CA	16.0	17.80	19.70	5	26.0	254.00	10	150
SM8S17A	SM8S17CA	17.0	18.90	20.90	5	27.6	239.00	10	150
SM8S18A	SM8S18CA	18.0	20.00	22.10	5	29.2	226.00	10	150
SM8S20A	SM8S20CA	20.0	22.20	24.50	5	32.4	204.00	10	150
SM8S22A	SM8S22CA	22.0	24.40	26.90	5	35.5	186.00	10	150
SM8S24A	SM8S24CA	24.0	26.70	29.50	5	38.9	170.00	10	150
SM8S26A	SM8S26CA	26.0	28.90	31.90	5	42.1	157.00	10	150
SM8S28A	SM8S28CA	28.0	31.10	34.40	5	45.4	145.00	10	150
SM8S30A	SM8S30CA	30.0	33.30	36.80	5	48.4	136.00	10	150
SM8S33A	SM8S33CA	33.0	36.70	40.60	5	53.3	124.00	10	150
SM8S36A	SM8S36CA	36.0	40.00	44.20	5	58.1	114.00	10	150
SM8S40A	SM8S40CA	40.0	44.40	49.10	5	64.5	102.00	10	150
SM8S43A	SM8S43CA	43.0	47.80	52.80	5	69.4	95.10	10	150

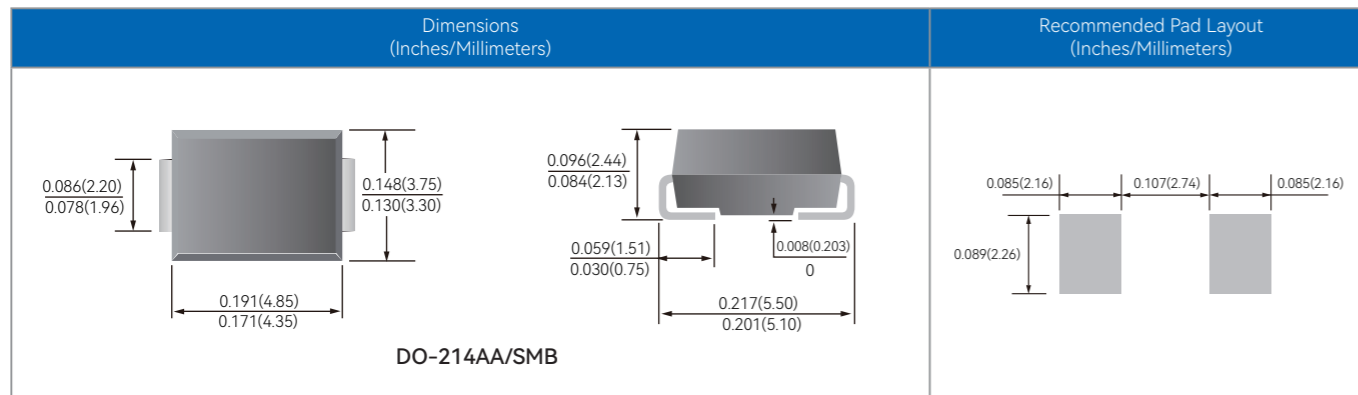


Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					$V_{BR}@I_T$					
					V_{RWM}	Min(V) Max(V)				
UNI	BI	UNI	BI	V	Min(V) Max(V)	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$	
SMAJ-TR Series(400W,10V_85V)										
SMAJ10A-TR	SMAJ10CA-TR	AXA	WXA	10.0	11.1 12.3	1	17.0	23.53	1	
SMAJ11A-TR	SMAJ11CA-TR	AZA	WZA	11.0	12.2 13.5	1	18.2	21.98	1	
SMAJ12A-TR	SMAJ12CA-TR	BEA	XEA	12.0	13.3 14.7	1	19.9	20.10	1	
SMAJ13A-TR	SMAJ13CA-TR	BGA	XGA	13.0	14.4 15.9	1	21.5	18.60	1	
SMAJ14A-TR	SMAJ14CA-TR	BKA	XKA	14.0	15.6 17.2	1	23.2	17.24	1	
SMAJ15A-TR	SMAJ15CA-TR	BMA	XMA	15.0	16.7 18.5	1	24.4	16.39	1	
SMAJ16A-TR	SMAJ16CA-TR	BPA	XPA	16.0	17.8 19.7	1	26.0	15.38	1	
SMAJ17A-TR	SMAJ17CA-TR	BRA	XRA	17.0	18.9 20.9	1	27.6	14.49	1	
SMAJ18A-TR	SMAJ18CA-TR	BTA	XTA	18.0	20.0 22.1	1	29.2	13.70	1	
SMAJ19A-TR	SMAJ19CA-TR	BBA	XBA	19.0	21.1 23.3	1	30.8	13.00	1	
SMAJ20A-TR	SMAJ20CA-TR	BVA	XVA	20.0	22.2 24.5	1	32.4	12.35	1	
SMAJ22A-TR	SMAJ22CA-TR	BXA	XXA	22.0	24.4 26.9	1	35.5	11.27	1	
SMAJ24A-TR	SMAJ24CA-TR	BZA	XZA	24.0	26.7 29.5	1	38.9	10.28	1	
SMAJ26A-TR	SMAJ26CA-TR	CEA	YEA	26.0	28.9 31.9	1	42.1	9.50	1	
SMAJ28A-TR	SMAJ28CA-TR	CGA	YGA	28.0	31.1 34.4	1	45.4	8.81	1	
SMAJ30A-TR	SMAJ30CA-TR	CKA	YKA	30.0	33.3 36.8	1	48.4	8.26	1	
SMAJ33A-TR	SMAJ33CA-TR	CMA	YMA	33.0	36.7 40.6	1	53.3	7.50	1	
SMAJ36A-TR	SMAJ36CA-TR	CPA	YPA	36.0	40.0 44.2	1	58.1	6.88	1	
SMAJ40A-TR	SMAJ40CA-TR	CRA	YRA	40.0	44.4 49.1	1	64.5	6.20	1	
SMAJ43A-TR	SMAJ43CA-TR	CTA	YTA	43.0	47.8 52.8	1	69.4	5.76	1	
SMAJ45A-TR	SMAJ45CA-TR	CVA	YVA	45.0	50.0 55.3	1	72.7	5.50	1	
SMAJ48A-TR	SMAJ48CA-TR	CXA	YXA	48.0	53.3 58.9	1	77.4	5.17	1	
SMAJ51A-TR	SMAJ51CA-TR	CZA	YZA	51.0	56.7 62.7	1	82.4	4.85	1	
SMAJ54A-TR	SMAJ54CA-TR	REA	ZEA	54.0	60.0 66.3	1	87.1	4.59	1	
SMAJ58A-TR	SMAJ58CA-TR	RGA	ZGA	58.0	64.4 71.2	1	93.6	4.27	1	
SMAJ60A-TR	SMAJ60CA-TR	RKA	ZKA	60.0	66.7 73.7	1	96.8	4.13	1	
SMAJ64A-TR	SMAJ64CA-TR	RMA	ZMA	64.0	71.1 78.6	1	103.0	3.88	1	
SMAJ70A-TR	SMAJ70CA-TR	RPA	ZPA	70.0	77.8 86.0	1	113.0	3.54	1	
SMAJ75A-TR	SMAJ75CA-TR	RRA	ZRA	75.0	83.3 92.1	1	121.0	3.31	1	
SMAJ78A-TR	SMAJ78CA-TR	RTA	ZTA	78.0	86.7 95.8	1	126.0	3.17	1	
SMAJ80A-TR	SMAJ80CA-TR	RBA	ZBA	80.0	88.8 97.6	1	129.6	3.09	1	
SMAJ85A-TR	SMAJ85CA-TR	RVA	ZVA	85.0	94.4 104.0	1	137.0	2.92	1	

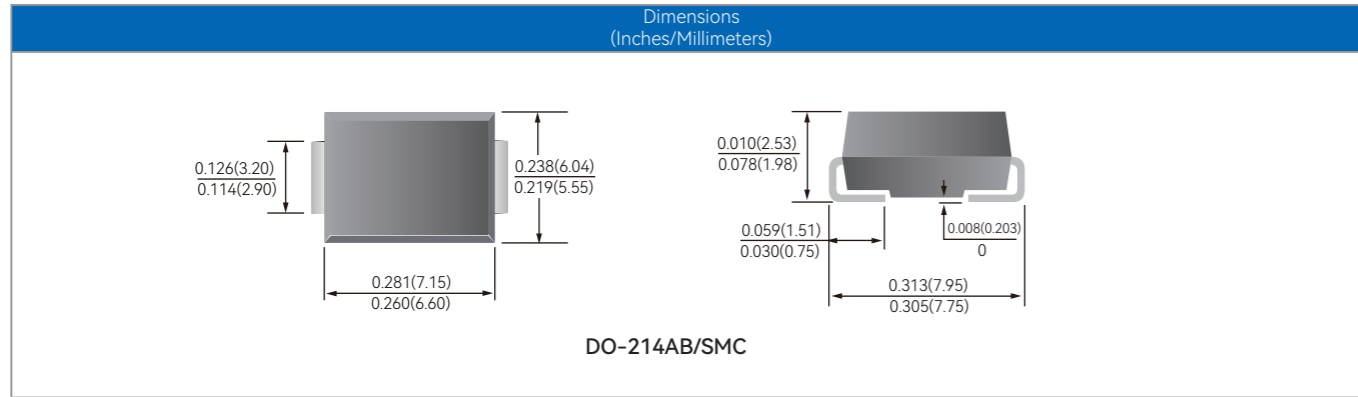


Type Number		Marking		Reverse Stand-Off Voltage		Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
				V_{RWM}	$V_{BR}@I_T$	$V_{BR}@I_T$	$V_{BR}@I_T$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$	
SMBJ-TR Series(600W,11V_170V)											
SMBJ11A-TR	SMBJ11CA-TR	KZA	AZA	11.0	12.2	13.5	1	18.2	32.97	1	
SMBJ12A-TR	SMBJ12CA-TR	LEA	BEA	12.0	13.3	14.7	1	19.9	30.15	1	
SMBJ13A-TR	SMBJ13CA-TR	LGA	BGA	13.0	14.4	15.9	1	21.5	27.91	1	
SMBJ14A-TR	SMBJ14CA-TR	LKA	BKA	14.0	15.6	17.2	1	23.2	25.86	1	
SMBJ15A-TR	SMBJ15CA-TR	LMA	BMA	15.0	16.7	18.5	1	24.4	24.59	1	
SMBJ16A-TR	SMBJ16CA-TR	LPA	BPA	16.0	17.8	19.7	1	26.0	23.08	1	
SMBJ17A-TR	SMBJ17CA-TR	LRA	BRA	17.0	18.9	20.9	1	27.6	21.74	1	
SMBJ18A-TR	SMBJ18CA-TR	LTA	BTA	18.0	20.0	22.1	1	29.2	20.55	1	
SMBJ19A-TR	SMBJ19CA-TR	LBA	BBA	19.0	21.1	23.3	1	30.8	19.49	1	
SMBJ20A-TR	SMBJ20CA-TR	LVA	BVA	20.0	22.2	24.5	1	32.4	18.52	1	
SMBJ22A-TR	SMBJ22CA-TR	LXA	BXA	22.0	24.4	26.9	1	35.5	16.90	1	
SMBJ24A-TR	SMBJ24CA-TR	LZA	BZA	24.0	26.7	29.5	1	38.9	15.42	1	
SMBJ26A-TR	SMBJ26CA-TR	MEA	CEA	26.0	28.9	31.9	1	42.1	14.25	1	
SMBJ28A-TR	SMBJ28CA-TR	MGA	CGA	28.0	31.1	34.4	1	45.4	13.22	1	
SMBJ30A-TR	SMBJ30CA-TR	MKA	CKA	30.0	33.3	36.8	1	48.4	12.40	1	
SMBJ33A-TR	SMBJ33CA-TR	MMA	CMA	33.0	36.7	40.6	1	53.3	11.26	1	
SMBJ36A-TR	SMBJ36CA-TR	MPA	CPA	36.0	40.0	44.2	1	58.1	10.33	1	
SMBJ40A-TR	SMBJ40CA-TR	MRA	CRA	40.0	44.4	49.1	1	64.5	9.30	1	
SMBJ43A-TR	SMBJ43CA-TR	MTA	CTA	43.0	47.8	52.8	1	69.4	8.65	1	
SMBJ45A-TR	SMBJ45CA-TR	MVA	CVA	45.0	50.0	55.3	1	72.7	8.25	1	
SMBJ48A-TR	SMBJ48CA-TR	MXA	CXA	48.0	53.3	58.9	1	77.4	7.75	1	
SMBJ51A-TR	SMBJ51CA-TR	MZA	CZA	51.0	56.7	62.7	1	82.4	7.28	1	
SMBJ54A-TR	SMBJ54CA-TR	NEA	DEA	54.0	60.0	66.3	1	87.1	6.89	1	
SMBJ58A-TR	SMBJ58CA-TR	NGA	DGA	58.0	64.4	71.2	1	93.6	6.41	1	
SMBJ60A-TR	SMBJ60CA-TR	NKA	DKA	60.0	66.7	73.7	1	96.8	6.20	1	
SMBJ64A-TR	SMBJ64CA-TR	NMA	DMA	64.0	71.1	78.6	1	103.0	5.83	1	
SMBJ70A-TR	SMBJ70CA-TR	NPA	DPA	70.0	77.8	86.0	1	113.0	5.31	1	
SMBJ75A-TR	SMBJ75CA-TR	NRA	DRA	75.0	83.3	92.1	1	121.0	4.96	1	
SMBJ78A-TR	SMBJ78CA-TR	NTA	DTA	78.0	86.7	95.8	1	126.0	4.76	1	
SMBJ85A-TR	SMBJ85CA-TR	NVA	DVA	85.0	94.4	104.0	1	137.0	4.38	1	
SMBJ90A-TR	SMBJ90CA-TR	NXA	DXA	90.0	100.0	111.0	1	146.0	4.11	1	
SMBJ100A-TR	SMBJ100CA-TR	NZA	DZA	100.0	111.0	123.0	1	162.0	3.70	1	
SMBJ110A-TR	SMBJ110CA-TR	PEA	EEA	110.0	122.0	135.0	1	177.0	3.39	1	
SMBJ120A-TR	SMBJ120CA-TR	PGA	EGA	120.0	133.0	147.0	1	193.0	3.11	1	

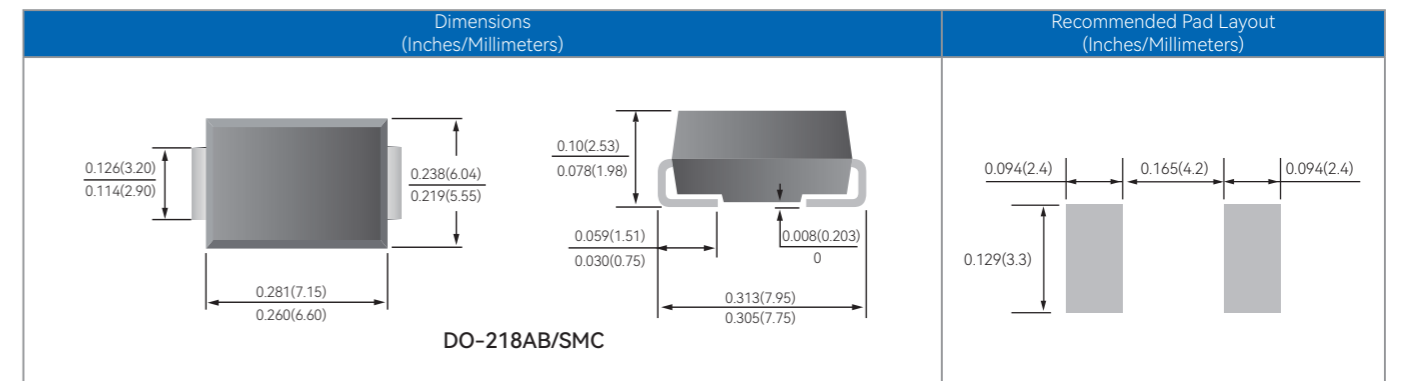
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T mA	$V_C @ I_{PP}$ V	I_{PP} A	$I_R @ V_{RWM}$ μ A
SMBJ-TR Series(600W,11V_170V)										
SMBJ130A-TR	SMBJ130CA-TR	PKA	EKA	130.0	144.0	159.0	1	209.0	2.87	1
SMBJ140A-TR	SMBJ140CA-TR	PBA	EBA	140.0	155.0	171.0	1	226.8	2.65	1
SMBJ150A-TR	SMBJ150CA-TR	PMA	EMA	150.0	167.0	185.0	1	243.0	2.47	1
SMBJ160A-TR	SMBJ160CA-TR	PPA	EPA	160.0	178.0	197.0	1	259.0	2.32	1
SMBJ170A-TR	SMBJ170CA-TR	PRA	ERA	170.0	189.0	209.0	1	275.0	2.18	1



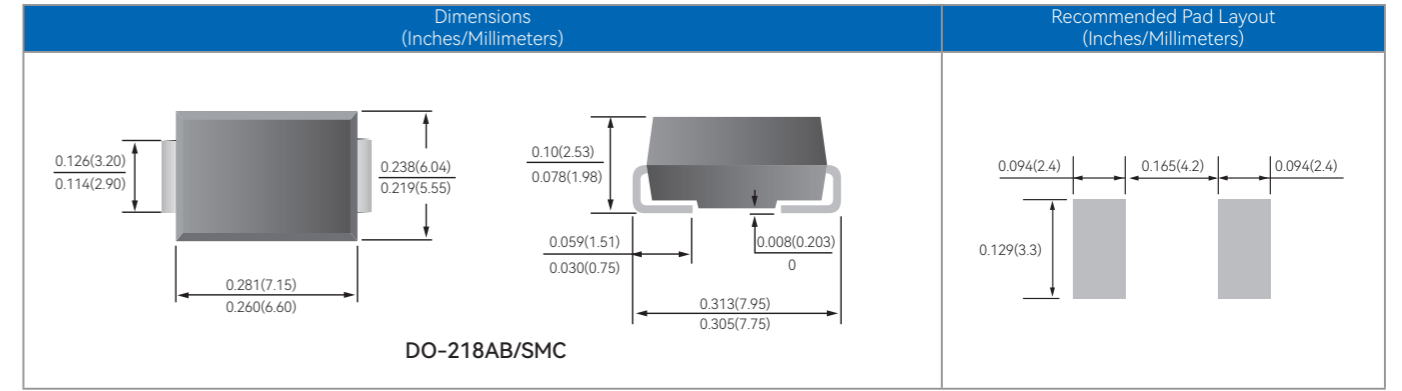
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T mA	$V_C @ I_{PP}$ V	I_{PP} A	$I_R @ V_{RWM}$ μ A
SMCJ-TR Series										
SMCJ10A-TR	SMCJ10CA-TR	GDXA	BDXA	10.0	11.1	12.3	1	17.0	88.2	5
SMCJ11A-TR	SMCJ11CA-TR	GDZA	BDZA	11.0	12.2	13.5	1	18.2	82.4	1
SMCJ12A-TR	SMCJ12CA-TR	GEEA	BEEA	12.0	13.3	14.7	1	19.9	75.4	1
SMCJ13A-TR	SMCJ13CA-TR	GEGA	BEGA	13.0	14.4	15.9	1	21.5	69.8	1
SMCJ14A-TR	SMCJ14CA-TR	GEKA	BEKA	14.0	15.6	17.2	1	23.2	64.7	1
SMCJ15A-TR	SMCJ15CA-TR	GEMA	BEMA	15.0	16.7	18.5	1	24.4	61.5	1
SMCJ16A-TR	SMCJ16CA-TR	GEP A	BEP A	16.0	17.8	19.7	1	26.0	57.7	1
SMCJ17A-TR	SMCJ17CA-TR	GER A	BER A	17.0	18.9	20.9	1	27.6	54.3	1
SMCJ18A-TR	SMCJ18CA-TR	GET A	BET A	18.0	20.0	22.1	1	29.2	51.4	1
SMCJ19A-TR	SMCJ19CA-TR	GEBA	BEBA	19.0	21.1	23.3	1	30.8	48.7	1
SMCJ20A-TR	SMCJ20CA-TR	GEVA	BEVA	20.0	22.2	24.5	1	32.4	46.3	1
SMCJ22A-TR	SMCJ22CA-TR	GEXA	BEXA	22.0	24.4	26.9	1	35.5	42.3	1
SMCJ24A-TR	SMCJ24CA-TR	GEZA	BEZA	24.0	26.7	29.5	1	38.9	38.6	1
SMCJ26A-TR	SMCJ26CA-TR	GFEA	BFEA	26.0	28.9	31.9	1	42.1	35.6	1
SMCJ28A-TR	SMCJ28CA-TR	GFGA	BFGA	28.0	31.1	34.4	1	45.4	33.0	1
SMCJ30A-TR	SMCJ30CA-TR	GFKA	BFKA	30.0	33.3	36.8	1	48.4	31.0	1
SMCJ33A-TR	SMCJ33CA-TR	GFMA	BFMA	33.0	36.7	40.6	1	53.3	28.1	1
SMCJ36A-TR	SMCJ36CA-TR	GFPA	BFPA	36.0	40.0	44.2	1	58.1	25.8	1
SMCJ40A-TR	SMCJ40CA-TR	GFRA	BFRA	40.0	44.4	49.1	1	64.5	23.3	1
SMCJ43A-TR	SMCJ43CA-TR	GFTA	BFTA	43.0	47.8	52.8	1	69.4	21.6	1
SMCJ45A-TR	SMCJ45CA-TR	GFVA	BFVA	45.0	50.0	55.3	1	72.7	20.6	1
SMCJ48A-TR	SMCJ48CA-TR	GFXA	BFXA	48.0	53.3	58.9	1	77.4	19.4	1
SMCJ51A-TR	SMCJ51CA-TR	GFZA	BFZA	51.0	56.7	62.7	1	82.4	18.2	1
SMCJ54A-TR	SMCJ54CA-TR	GGEA	BGEA	54.0	60.0	66.3	1	87.1	17.2	1
SMCJ58A-TR	SMCJ58CA-TR	GGGA	BGGA	58.0	64.4	71.2	1	93.6	16.0	1
SMCJ60A-TR	SMCJ60CA-TR	GGKA	BGKA	60.0	66.7	73.7	1	96.8	15.5	1
SMCJ64A-TR	SMCJ64CA-TR	GGMA	BGMA	64.0	71.1	78.6	1	103.0	14.6	1
SMCJ70A-TR	SMCJ70CA-TR	GGPA	BGPA	70.0	77.8	86.0	1	113.0	13.3	1
SMCJ75A-TR	SMCJ75CA-TR	GGRA	BGRA	75.0	83.3	92.1	1	121.0	12.4	1
SMCJ78A-TR	SMCJ78CA-TR	GGTA	BGTA	78.0	86.7	95.8	1	126.0	11.9	1



Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
				V_{RWM}	$V_{BR @ I_T}$					
UNI	BI	UNI	BI	V	Min(V)	Max(V)	mA	V	A	μ A
SMDJ-TR Series										
SMDJ10A-TR	SMDJ10CA-TR	PDXA	DDXA	10	11.1	12.3	1	17	176.47	15
SMDJ11A-TR	SMDJ11CA-TR	PDZA	DDZA	11	12.2	13.5	1	18.2	164.84	2
SMDJ12A-TR	SMDJ12CA-TR	PEEA	DEEA	12	13.3	14.7	1	19.2	150.75	2
SMDJ13A-TR	SMDJ13CA-TR	PEGA	DEGA	13	14.4	15.9	1	21.5	139.53	2
SMDJ14A-TR	SMDJ14CA-TR	PEKA	DEKA	14	15.6	17.2	1	23.2	129.31	2
SMDJ15A-TR	SMDJ15CA-TR	PEMA	DEMA	15	16.7	18.5	1	24.4	122.95	2
SMDJ16A-TR	SMDJ16CA-TR	PEPA	DEPA	16	17.8	19.7	1	26	115.38	2
SMDJ17A-TR	SMDJ17CA-TR	PERA	DERA	17	18.9	20.9	1	27.6	108.7	2
SMDJ18A-TR	SMDJ18CA-TR	PETA	DETA	18	20	22.1	1	29.2	102.74	2
SMDJ19A-TR	SMDJ19CA-TR	PEBA	DEBA	19	21.1	23.3	1	30.8	97.47	2
SMDJ20A-TR	SMDJ20CA-TR	PEVA	DEVA	20	22.2	24.5	1	32.4	92.59	2
SMDJ22A-TR	SMDJ22CA-TR	PEXA	DEXA	22	24.4	26.9	1	35.5	84.51	2
SMDJ24A-TR	SMDJ24CA-TR	PEZA	DEZA	24	26.7	29.5	1	38.9	77.12	2
SMDJ26A-TR	SMDJ26CA-TR	PFEA	DFEA	26	28.9	31.9	1	42.1	71.26	2
SMDJ28A-TR	SMDJ28CA-TR	PFGA	DFGA	28	31.1	34.4	1	45.4	66.08	2
SMDJ30A-TR	SMDJ30CA-TR	PFKA	DFKA	30	33.3	36.8	1	48.4	61.98	2
SMDJ33A-TR	SMDJ33CA-TR	PFMA	DFMA	33	36.7	40.6	1	53.3	56.29	2
SMDJ36A-TR	SMDJ36CA-TR	PFFA	DFPA	36	40	44.2	1	58.1	51.64	2
SMDJ40A-TR	SMDJ40CA-TR	PFRA	DFRA	40	44.4	49.1	1	64.5	46.51	2
SMDJ43A-TR	SMDJ43CA-TR	PFTA	DFTA	43	47.8	52.8	1	69.4	43.23	2



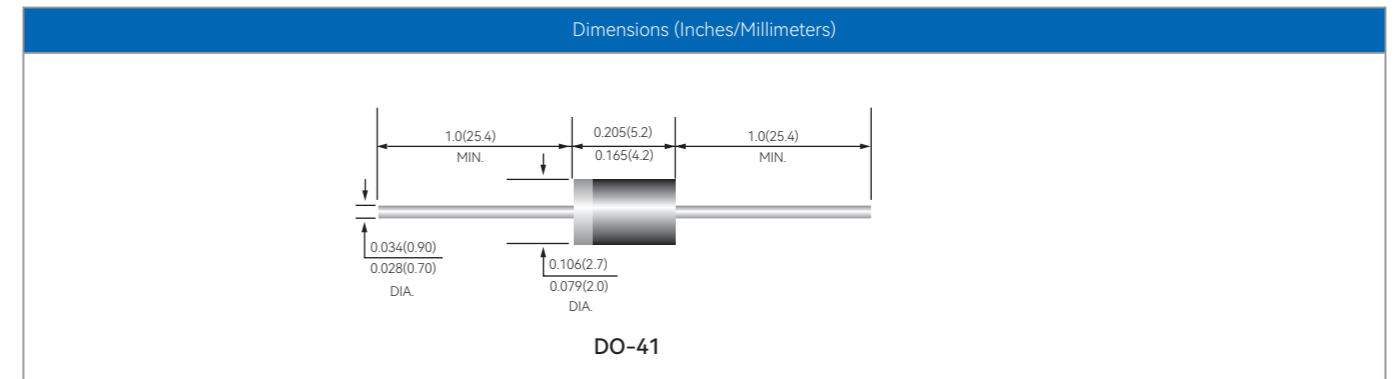
Type Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
					V_{RWM}	$V_{BR @ I_T}$				
UNI	BI	UNI	BI	V	Min(V)	Max(V)	I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
5.0SMDJ-TR Series										
5.0SMDJ10A-TR	5.0SMDJ10CA-TR	5SAE	5DAE	10	11.1	12.3	1	17	294.12	15
5.0SMDJ11A-TR	5.0SMDJ11CA-TR	5SAF	5DAF	11	12.2	13.5	1	18.2	274.73	2
5.0SMDJ12A-TR	5.0SMDJ12CA-TR	5SAG	5DAG	12	13.3	14.7	1	19.9	251.26	2
5.0SMDJ13A-TR	5.0SMDJ13CA-TR	5SAK	5DAK	13	14.4	15.9	1	21.5	232.56	2
5.0SMDJ14A-TR	5.0SMDJ14CA-TR	5SAM	5DAM	14	15.6	17.2	1	23.2	215.52	2
5.0SMDJ15A-TR	5.0SMDJ15CA-TR	5SAP	5DAP	15	16.7	18.5	1	24.4	204.92	2
5.0SMDJ16A-TR	5.0SMDJ16CA-TR	5SAR	5DAR	16	17.8	19.7	1	26	192.31	2
5.0SMDJ17A-TR	5.0SMDJ17CA-TR	5SAT	5DAT	17	18.9	20.9	1	27.6	181.16	2
5.0SMDJ18A-TR	5.0SMDJ18CA-TR	5SAV	5DAV	18	20	22.1	1	29.2	171.23	2
5.0SMDJ19A-TR	5.0SMDJ19CA-TR	5SAX	5DAX	19	21.1	23.3	1	30.8	162.44	2
5.0SMDJ20A-TR	5.0SMDJ20CA-TR	5SAZ	5DAZ	20	22.2	24.5	1	32.4	154.32	2
5.0SMDJ22A-TR	5.0SMDJ22CA-TR	5SBE	5DBE	22	24.4	26.9	1	35.5	140.85	2
5.0SMDJ24A-TR	5.0SMDJ24CA-TR	5SBF	5DBF	24	26.7	29.5	1	38.9	128.53	2
5.0SMDJ26A-TR	5.0SMDJ26CA-TR	5SBG	5DBG	26	28.9	31.9	1	42.1	118.76	2
5.0SMDJ28A-TR	5.0SMDJ28CA-TR	5SBK	5DBK	28	31.1	34.4	1	45.4	110.31	2
5.0SMDJ30A-TR	5.0SMDJ30CA-TR	5SBM	5DBM	30	33.3	36.8	1	48.4	103.31	2
5.0SMDJ33A-TR	5.0SMDJ33CA-TR	5SBP	5DBP	33	36.7	40.6	1	53.3	93.81	2
5.0SMDJ36A-TR	5.0SMDJ36CA-TR	5SBR	5DBR	36	40	44.2	1	58.1	86.06	2
5.0SMDJ40A-TR	5.0SMDJ40CA-TR	5SBT	5DBT	40	44.4	49.1	1	64.5	77.52	2
5.0SMDJ43A-TR	5.0SMDJ43CA-TR	5SBV	5DBV	43	47.8	52.8	1	69.4	72.05	2
5.0SMDJ45A-TR	5.0SMDJ45CA-TR	5SBX	5DBX	45	50	55.3	1	72.7	68.78	2
5.0SMDJ48A-TR	5.0SMDJ48CA-TR	5SBZ	5DBZ	48	53.3	58.9	1	77.4	64.6	2
5.0SMDJ51A-TR	5.0SMDJ51CA-TR	5SCE	5DCE	51	56.7	62.7	1	82.4	60.68	2
5.0SMDJ54A-TR	5.0SMDJ54CA-TR	5SCF	5DCF	54	60	66.3	1	87.1	57.41	2
5.0SMDJ58A-TR	5.0SMDJ58CA-TR	5SCG	5DCG	58	64.4	71.2	1	93.6	53.42	2



Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
		V _{RWM}	V _{BR} @I _T					
UNI	BI	V	Min(V)	Max(V)	I _T mA	V _C @I _{PP} V	I _{PP} A	I _R @V _{RWM} µA
400W Transient Voltage Suppressors Diodes (DO-41)								
P4KE6.8A	P4KE6.8CA	5.80	6.45	7.14	10	10.5	39.0	1000
P4KE7.5A	P4KE7.5CA	6.40	7.13	7.88	10	11.3	36.3	500
P4KE8.2A	P4KE8.2CA	7.02	7.79	8.61	10	12.1	33.9	200
P4KE9.1A	P4KE9.1CA	7.78	8.65	9.55	1	13.4	30.6	50
P4KE10A	P4KE10CA	8.55	9.50	10.50	1	14.5	28.3	10
P4KE11A	P4KE11CA	9.78	10.50	11.60	1	15.6	26.3	5
P4KE12A	P4KE12CA	10.70	11.40	12.60	1	16.7	24.6	5
P4KE13A	P4KE13CA	11.66	12.40	13.70	1	18.2	22.5	1
P4KE15A	P4KE15CA	13.44	14.30	15.80	1	21.2	19.3	1
P4KE16A	P4KE16CA	14.28	15.20	16.80	1	22.5	18.2	1
P4KE18A	P4KE18CA	16.07	17.10	18.90	1	25.5	16.1	1
P4KE20A	P4KE20CA	17.96	19.00	21.00	1	27.7	14.8	1
P4KE22A	P4KE22CA	19.74	20.90	23.10	1	30.6	13.4	1
P4KE24A	P4KE24CA	21.53	22.80	25.20	1	33.2	12.3	1
P4KE27A	P4KE27CA	24.26	25.70	28.40	1	37.5	10.9	1
P4KE30A	P4KE30CA	26.88	28.50	31.50	1	41.4	9.9	1
P4KE33A	P4KE33CA	29.61	31.40	34.70	1	45.7	9.0	1
P4KE36A	P4KE36CA	32.34	34.20	37.80	1	49.9	8.2	1
P4KE39A	P4KE39CA	34.97	37.10	41.00	1	53.9	7.6	1
P4KE43A	P4KE43CA	38.64	40.90	45.20	1	59.3	6.9	1
P4KE47A	P4KE47CA	42.21	44.70	49.40	1	64.8	6.3	1
P4KE51A	P4KE51CA	45.78	48.50	53.60	1	70.1	5.8	1
P4KE56A	P4KE56CA	50.19	53.20	58.80	1	77.0	5.3	1
P4KE62A	P4KE62CA	55.65	58.90	65.10	1	85.0	4.8	1
P4KE68A	P4KE68CA	61.01	64.60	71.40	1	92.0	4.5	1
P4KE75A	P4KE75CA	67.31	71.30	78.80	1	103.0	4.0	1
P4KE82A	P4KE82CA	73.61	77.90	86.10	1	113.0	3.6	1
P4KE91A	P4KE91CA	81.69	86.50	95.50	1	125.0	3.3	1
P4KE100A	P4KE100CA	89.78	95.00	105.00	1	137.0	3.0	1
P4KE110A	P4KE110CA	98.70	105.00	116.00	1	152.0	2.7	1
P4KE120A	P4KE120CA	107.10	114.00	126.00	1	165.0	2.5	1
P4KE130A	P4KE130CA	116.55	124.00	137.00	1	179.0	2.3	1
P4KE150A	P4KE150CA	134.40	143.00	158.00	1	207.0	2.0	1

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
		V _{RWM}	V _{BR} @I _T					
UNI	BI	V	Min(V)	Max(V)	I _T mA	V _C @I _{PP} V	I _{PP} A	I _R @V _{RWM} µA
P4KE160A	P4KE160CA	142.80	152.00	168.00	1	219.0	1.9	1
P4KE170A	P4KE170CA	152.25	162.00	179.00	1	234.0	1.8	1
P4KE180A	P4KE180CA	161.70	171.00	189.00	1	246.0	1.7	1
P4KE200A	P4KE200CA	179.55	190.00	210.00	1	274.0	1.5	1
P4KE220A	P4KE220CA	194.25	209.00	231.00	1	328.0	1.3	1
P4KE250A	P4KE250CA	224.70	237.00	263.00	1	344.0	1.2	1
P4KE300A	P4KE300CA	268.80	285.00	315.00	1	414.0	1.0	1
P4KE350A	P4KE350CA	315.00	332.00	368.00	1	482.0	0.85	1
P4KE400A	P4KE400CA	359.10	380.00	420.00	1	548.0	0.75	1
P4KE440A	P4KE440CA	394.80	418.00	462.00	1	602.0	0.68	1

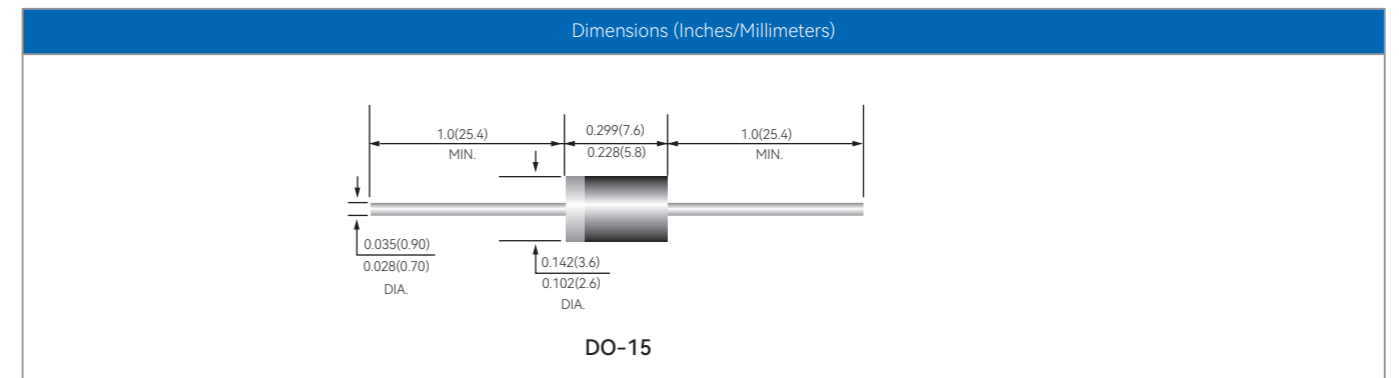
Notes: For bidirectional type having VRWM of 12V and less, the IR limit is double.



Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
		V _{RWM}	V _{BR} @I _T					
UNI	BI	V	Min(V)	Max(V)	I _T mA	V _{C@I_{PP}} V	I _{PP} A	I _{R@V_{RWM}} µA
600W Transient Voltage Suppressors Diodes (DO-15)								
P6KE6.8A	P6KE6.8CA	5.80	6.45	7.14	10	10.5	57.0	300
P6KE7.5A	P6KE7.5CA	6.40	7.13	7.88	10	11.3	53.0	200
P6KE8.2A	P6KE8.2CA	7.02	7.79	8.61	10	12.1	50.0	100
P6KE9.1A	P6KE9.1CA	7.78	8.65	9.55	1	13.4	45.0	50
P6KE10A	P6KE10CA	8.55	9.50	10.50	1	14.5	41.0	10
P6KE11A	P6KE11CA	9.40	10.50	11.60	1	15.6	38.0	1
P6KE12A	P6KE12CA	10.20	11.40	12.60	1	16.7	36.0	1
P6KE13A	P6KE13CA	11.10	12.40	13.70	1	18.2	33.0	1
P6KE15A	P6KE15CA	12.80	14.30	15.80	1	21.2	28.0	1
P6KE16A	P6KE16CA	13.60	15.20	16.80	1	22.5	27.0	1
P6KE18A	P6KE18CA	15.30	17.10	18.90	1	25.2	24.0	1
P6KE20A	P6KE20CA	17.10	19.00	21.00	1	27.7	22.0	1
P6KE22A	P6KE22CA	18.80	20.90	23.10	1	30.6	20.0	1
P6KE24A	P6KE24CA	20.50	22.80	25.20	1	33.2	18.0	1
P6KE27A	P6KE27CA	23.10	25.70	28.40	1	37.5	16.0	1
P6KE30A	P6KE30CA	25.60	28.50	31.50	1	41.4	14.4	1
P6KE33A	P6KE33CA	28.20	31.40	34.70	1	45.7	13.2	1
P6KE36A	P6KE36CA	30.80	34.20	37.80	1	49.9	12.0	1
P6KE39A	P6KE39CA	33.30	37.10	41.00	1	53.9	11.2	1
P6KE43A	P6KE43CA	36.80	40.90	45.20	1	59.3	10.1	1
P6KE47A	P6KE47CA	40.20	44.70	49.40	1	64.8	9.30	1
P6KE51A	P6KE51CA	43.60	48.50	53.60	1	70.1	8.60	1
P6KE56A	P6KE56CA	47.80	53.20	58.80	1	77.0	7.80	1
P6KE62A	P6KE62CA	53.00	58.90	65.10	1	85.0	7.10	1
P6KE68A	P6KE68CA	58.10	64.60	71.40	1	92.0	6.50	1
P6KE75A	P6KE75CA	64.10	71.30	78.80	1	103.0	5.80	1
P6KE82A	P6KE82CA	70.10	77.90	86.10	1	113.0	5.30	1
P6KE91A	P6KE91CA	77.80	86.50	95.50	1	125.0	4.80	1
P6KE100A	P6KE100CA	85.50	95.00	105.00	1	137.0	4.40	1
P6KE110A	P6KE110CA	94.00	105.00	116.00	1	152.0	4.00	1
P6KE120A	P6KE120CA	102.00	114.00	126.00	1	165.0	3.60	1
P6KE130A	P6KE130CA	111.00	124.00	137.00	1	179.0	3.30	1
P6KE150A	P6KE150CA	128.00	143.00	158.00	1	207.0	2.90	1

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
		V _{RWM}	V _{BR} @I _T					
UNI	BI	V	Min(V)	Max(V)	I _T mA	V _{C@I_{PP}} V	I _{PP} A	I _{R@V_{RWM}} µA
P6KE160A	P6KE160CA	136.00	152.00	168.00	1	219.0	2.70	1
P6KE170A	P6KE170CA	145.00	162.00	179.00	1	234.0	2.60	1
P6KE180A	P6KE180CA	154.00	171.00	189.00	1	246.0	2.40	1
P6KE200A	P6KE200CA	171.00	190.00	210.00	1	274.0	2.20	1
P6KE220A	P6KE220CA	185.00	209.00	231.00	1	328.0	1.83	1
P6KE250A	P6KE250CA	214.00	237.00	263.00	1	344.0	1.75	1
P6KE300A	P6KE300CA	256.00	285.00	315.00	1	414.0	1.45	1
P6KE350A	P6KE350CA	300.00	332.00	368.00	1	482.0	1.25	1
P6KE400A	P6KE400CA	342.00	380.00	420.00	1	548.0	1.10	1
P6KE440A	P6KE440CA	376.00	418.00	462.00	1	602.0	1.00	1
P6KE500A	P6KE500CA	427.50	475.00	525.00	1	690.0	0.87	1
P6KE520A	P6KE520CA	444.60	494.00	546.00	1	717.0	0.84	1
P6KE550A	P6KE550CA	470.30	522.00	577.50	1	759.0	0.79	1
P6KE600A	P6KE600CA	513.00	570.00	630.00	1	828.0	0.72	1

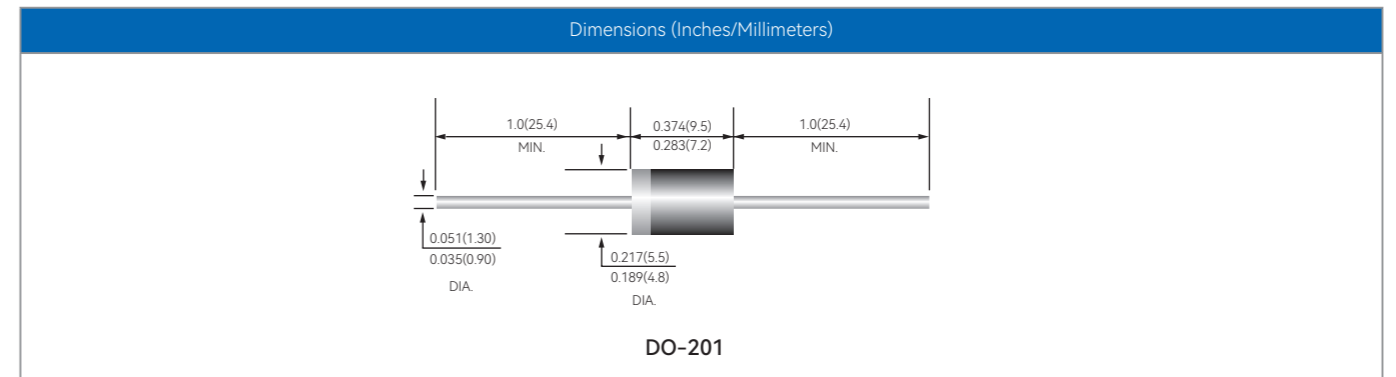
Notes: For bidirectional type having VRWM of 12V and less, the IR limit is double.



Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
		V _{RWM}	V _{BR} @I _T					
UNI	BI	V	Min(V)	Max(V)	I _T mA	V _{C@I_{PP}} V	I _{PP} A	I _{R@V_{RWM}} µA
1500W Transient Voltage Suppressors Diodes(DO-201)								
1.5KE6.8A	1.5KE6.8CA	5.80	6.45	7.14	10	10.5	143.0	1000
1.5KE7.5A	1.5KE7.5CA	6.40	7.13	7.88	10	11.3	132.0	500
1.5KE8.2A	1.5KE8.2CA	7.02	7.79	8.61	10	12.1	124.0	200
1.5KE9.1A	1.5KE9.1CA	7.78	8.60	9.55	1	13.4	112.0	50
1.5KE10A	1.5KE10CA	8.55	9.50	10.50	1	14.5	103.0	10
1.5KE11A	1.5KE11CA	9.40	10.50	11.60	1	15.6	96.0	5
1.5KE12A	1.5KE12CA	10.20	11.40	12.60	1	16.7	90.0	5
1.5KE13A	1.5KE13CA	11.10	12.40	13.70	1	18.2	82.0	1
1.5KE15A	1.5KE15CA	12.80	14.30	15.80	1	21.2	71.0	1
1.5KE16A	1.5KE16CA	13.60	15.20	16.80	1	22.5	67.0	1
1.5KE18A	1.5KE18CA	15.30	17.10	18.90	1	25.2	59.5	1
1.5KE20A	1.5KE20CA	17.10	19.00	21.00	1	27.7	54.0	1
1.5KE22A	1.5KE22CA	18.80	20.90	23.10	1	30.6	49.0	1
1.5KE24A	1.5KE24CA	20.50	22.80	25.20	1	33.2	45.0	1
1.5KE27A	1.5KE27CA	23.10	25.70	28.40	1	37.5	40.0	1
1.5KE30A	1.5KE30CA	25.60	28.50	31.50	1	41.4	36.0	1
1.5KE33A	1.5KE33CA	28.20	31.40	34.70	1	45.7	33.0	1
1.5KE36A	1.5KE36CA	30.80	34.20	37.80	1	49.9	30.0	1
1.5KE39A	1.5KE39CA	33.30	37.10	41.00	1	53.9	28.0	1
1.5KE43A	1.5KE43CA	36.80	40.90	45.20	1	59.3	25.3	1
1.5KE47A	1.5KE47CA	40.20	44.70	49.40	1	64.8	23.2	1
1.5KE51A	1.5KE51CA	43.60	48.50	53.60	1	70.1	21.4	1
1.5KE56A	1.5KE56CA	47.80	53.20	58.80	1	77.0	19.5	1
1.5KE62A	1.5KE62CA	53.00	58.90	65.10	1	85.0	17.7	1
1.5KE68A	1.5KE68CA	58.10	64.60	71.40	1	92.0	16.3	1
1.5KE75A	1.5KE75CA	64.10	71.30	78.80	1	103.0	14.6	1
1.5KE82A	1.5KE82CA	70.10	77.90	86.10	1	113.0	13.3	1
1.5KE91A	1.5KE91CA	77.80	86.50	95.50	1	125.0	12.0	1
1.5KE100A	1.5KE100CA	85.50	95.00	105.00	1	137.0	11.0	1
1.5KE110A	1.5KE110CA	94.00	105.00	116.00	1	152.0	9.9	1
1.5KE120A	1.5KE120CA	102.00	114.00	126.00	1	165.0	9.1	1
1.5KE130A	1.5KE130CA	111.00	124.00	137.00	1	179.0	8.4	1
1.5KE150A	1.5KE150CA	128.00	143.00	158.00	1	207.0	7.2	1

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
		V _{RWM}	V _{BR} @I _T					
UNI	BI	V	Min(V)	Max(V)	I _T mA	V _{C@I_{PP}} V	I _{PP} A	I _{R@V_{RWM}} µA
1.5KE160A	1.5KE160CA	136.00	152.00	168.00	1	219.0	6.8	1
1.5KE170A	1.5KE170CA	145.00	162.00	179.00	1	234.0	6.4	1
1.5KE180A	1.5KE180CA	154.00	171.00	189.00	1	246.0	6.1	1
1.5KE200A	1.5KE200CA	171.00	190.00	210.00	1	274.0	5.5	1
1.5KE220A	1.5KE220CA	185.00	209.00	231.00	1	328.0	4.6	1
1.5KE250A	1.5KE250CA	214.00	237.00	263.00	1	344.0	4.5	1
1.5KE300A	1.5KE300CA	256.00	285.00	315.00	1	414.0	3.8	1
1.5KE350A	1.5KE350CA	300.00	332.00	368.00	1	482.0	3.2	1
1.5KE400A	1.5KE400CA	342.00	380.00	420.00	1	548.0	2.8	1
1.5KE440A	1.5KE440CA	376.00	418.00	462.00	1	602.0	2.5	1
1.5KE480A	1.5KE480CA	408.00	456.00	504.00	1	658.0	2.3	1

Notes: For bidirectional type having VRWM of 12V and less, the IR limit is double.

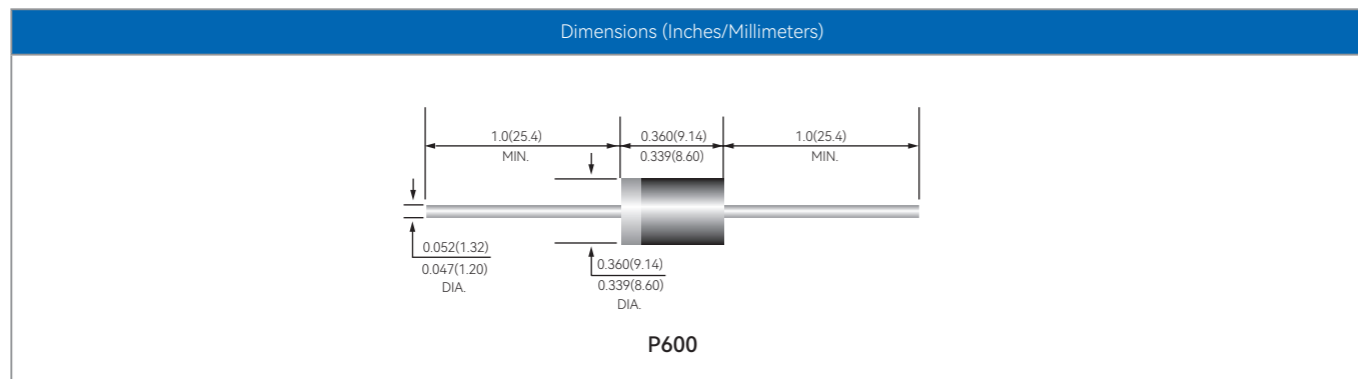


Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000μs	Peak Pulse Current 10/1000μs	Reverse Leakage
		V _{RWM}	V _{BR @IT}					
UNI	BI	V	Min(V)	Max(V)	mA	V	A	μA
3000W Transient Voltage Suppressors Diodes(P600)								
3KP5.0A	3KP5.0CA	5.0	6.40	7.00	50	9.2	326.0	5000
3KP6.0A	3KP6.0CA	6.0	6.67	7.37	50	10.3	291.3	5000
3KP6.5A	3KP6.5CA	6.5	7.22	7.98	50	11.2	267.9	2000
3KP7.0A	3KP7.0CA	7.0	7.78	8.60	50	12.0	250.0	1000
3KP7.5A	3KP7.5CA	7.5	8.33	9.21	5	12.9	232.6	250
3KP8.0A	3KP8.0CA	8.0	8.89	9.83	5	13.6	220.6	150
3KP8.5A	3KP8.5CA	8.5	9.44	10.40	5	14.4	208.4	50
3KP9.0A	3KP9.0CA	9.0	10.00	11.10	5	15.4	194.8	20
3KP10A	3KP10CA	10.0	11.10	12.30	5	17.0	176.4	15
3KP11A	3KP11CA	11.0	12.20	13.50	5	18.2	164.8	2
3KP12A	3KP12CA	12.0	13.30	14.70	5	19.9	150.6	2
3KP13A	3KP13CA	13.0	14.40	15.90	5	21.5	139.4	2
3KP14A	3KP14CA	14.0	15.60	17.20	5	23.2	129.4	2
3KP15A	3KP15CA	15.0	16.70	18.50	5	24.4	123.0	2
3KP16A	3KP16CA	16.0	17.80	19.70	5	26.0	115.4	2
3KP17A	3KP17CA	17.0	18.90	20.90	5	27.6	106.6	2
3KP18A	3KP18CA	18.0	20.00	22.10	5	29.2	102.8	2
3KP20A	3KP20CA	20.0	22.20	24.50	5	32.4	92.6	2
3KP22A	3KP22CA	22.0	24.40	26.90	5	35.5	84.4	2
3KP24A	3KP24CA	24.0	26.70	29.50	5	38.9	77.2	2
3KP26A	3KP26CA	26.0	28.90	31.90	5	42.1	71.2	2
3KP28A	3KP28CA	28.0	31.10	34.40	5	45.4	66.0	2
3KP30A	3KP30CA	30.0	33.30	36.80	5	48.4	62.0	2
3KP33A	3KP33CA	33.0	36.70	40.60	5	53.3	56.2	2
3KP36A	3KP36CA	36.0	40.00	44.20	5	58.1	51.6	2
3KP40A	3KP40CA	40.0	44.40	49.10	5	64.5	46.4	2
3KP43A	3KP43CA	43.0	47.80	52.80	5	69.4	43.2	2
3KP45A	3KP45CA	45.0	50.00	55.30	5	72.7	41.2	2
3KP48A	3KP48CA	48.0	53.30	58.90	5	77.4	38.8	2
3KP51A	3KP51CA	51.0	56.70	62.70	5	82.4	36.4	2
3KP54A	3KP54CA	54.0	60.00	66.30	5	87.1	34.4	2
3KP58A	3KP58CA	58.0	64.40	71.20	5	93.6	32.0	2
3KP60A	3KP60CA	60.0	66.70	73.70	5	96.8	31.0	2

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000μs	Peak Pulse Current 10/1000μs	Reverse Leakage
		V _{RWM}	V _{BR @IT}					
UNI	BI	V	Min(V)	Max(V)	mA	V	A	μA
5000W Transient Voltage Suppressors Diodes(P600)								
5KP5.0A	5KP5.0CA	5.0	6.40	7.00	50	9.2	543.48	5000
5KP6.0A	5KP6.0CA	6.0	6.67	7.37	50	10.3	485.44	5000
5KP6.5A	5KP6.5CA	6.5	7.22	7.98	50	11.2	446.43	2000
5KP7.0A	5KP7.0CA	7.0	7.78	8.60	50	12.0	416.67	1000
5KP7.5A	5KP7.5CA	7.5	8.33	9.21	5	12.9	387.60	250
5KP8.0A	5KP8.0CA	8.0	8.89	9.83	5	13.6	367.65	150
5KP8.5A	5KP8.5CA	8.5	9.44	10.40	5	14.4	347.22	50
5KP9.0A	5KP9.0CA	9.0	10.00	11.10	5	15.4	324.68	20
5KP10A	5KP10CA	10.0	11.10	12.30	5	17.0	294.12	15
5KP11A	5KP11CA	11.0	12.20	13.50	5	18.2	274.73	2
5KP12A	5KP12CA	12.0	13.30	14.70	5	19.9	251.26	2
5KP13A	5KP13CA	13.0	14.40	15.90	5	21.5	232.56	2
5KP14A	5KP14CA	14.0	15.60	17.20	5	23.2	215.52	2
5KP15A	5KP15CA	15.0	16.70	18.50	5	24.4	204.92	2
5KP16A	5KP16CA	16.0	17.80	19.70	5	26.0	192.31	2
5KP17A	5KP17CA	17.0	18.90	20.90	5	27.6	181.16	2
5KP18A	5KP18CA	18.0	20.00	22.10	5	29.2	171.23	2
5KP20A	5KP20CA	20.0	22.20	24.50	5	32.4	154.32	2
5KP22A	5KP22CA	22.0	24.40	26.90	5	35.5	140.85	2
5KP24A	5KP24CA	24.0	26.70	29.50	5	38.9	128.53	2
5KP26A	5KP26CA	26.0	28.90	31.90	5	42.1	118.76	2
5KP28A	5KP28CA	28.0	31.10	34.40	5	45.4	110.13	2
5KP30A	5KP30CA	30.0	33.30	36.80	5	48.4	103.31	2
5KP33A	5KP33CA	33.0	36.70	40.60	5	53.3	93.81	2
5KP36A	5KP36CA	36.0	40.00	44.20	5	58.1	86.06	2
5KP40A	5KP40CA	40.0	44.40	49.10	5	64.5	77.52	2
5KP43A	5KP43CA	43.0	47.80	52.80	5	69.4	72.05	2
5KP45A	5KP45CA	45.0	50.00	55.30	5	72.7	68.78	2
5KP48A	5KP48CA	48.0	53.30	58.90	5	77.4	64.60	2
5KP51A	5KP51CA	51.0	56.70	62.70	5	82.4	60.68	2
5KP54A	5KP54CA	54.0	60.00	66.30	5	87.1	57.41	2
5KP58A	5KP58CA	58.0	64.40	71.20	5	93.6	53.42	2
5KP60A	5KP60CA	60.0	66.70	73.70	5	96.8	51.65	2

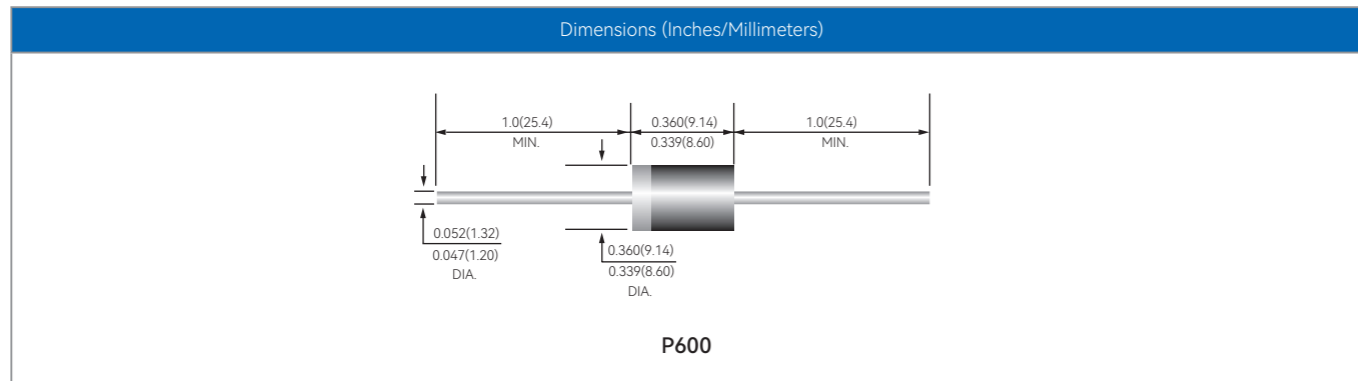
Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
			V _{RWM}	V _{BR @IT}				
UNI	BI	V	Min(V)	Max(V)	I _T	V _{C@IPP}	I _{PP}	I _{R@VRWM}
5KP64A	5KP64CA	64.0	71.10	78.60	5	103.0	48.54	2
5KP70A	5KP70CA	70.0	77.80	86.00	5	113.0	44.25	2
5KP75A	5KP75CA	75.0	83.30	92.10	5	121.0	41.32	2
5KP78A	5KP78CA	78.0	86.70	95.80	5	126.0	39.68	2
5KP80A	5KP80CA	80.0	88.80	97.60	5	129.6	38.58	2
5KP85A	5KP85CA	85.0	94.40	104.00	5	137.0	36.50	2
5KP90A	5KP90CA	90.0	100.00	111.00	5	146.0	34.25	2
5KP100A	5KP100CA	100.0	111.00	123.00	5	162.0	30.86	2
5KP110A	5KP110CA	110.0	122.00	135.00	5	177.0	28.25	2
5KP120A	5KP120CA	120.0	133.00	147.00	5	193.0	25.91	2
5KP130A	5KP130CA	130.0	144.00	159.00	5	209.0	23.92	2
5KP140A	5KP140CA	140.0	155.00	171.00	5	226.8	22.05	2
5KP150A	5KP150CA	150.0	167.00	185.00	5	243.0	20.58	2
5KP160A	5KP160CA	160.0	178.00	197.00	5	259.0	19.31	2
5KP170A	5KP170CA	170.0	189.00	209.00	5	275.0	18.18	2
5KP180A	5KP180CA	180.0	200.00	221.00	5	292.0	17.15	2
5KP190A	5KP190CA	190.0	211.00	233.00	5	310.0	16.24	2
5KP200A	5KP200CA	200.0	224.00	247.00	5	324.0	15.43	2
5KP210A	5KP210CA	210.0	233.00	258.00	5	349.5	14.31	2
5KP220A	5KP220CA	220.0	246.00	272.00	5	356.0	14.04	2
5KP250A	5KP250CA	250.0	279.00	309.00	5	405.0	12.35	2
5KP300A	5KP300CA	300.0	335.00	371.00	5	486.0	10.29	2
5KP350A	5KP350CA	350.0	391.00	432.00	5	567.0	8.82	2
5KP400A	5KP400CA	400.0	447.00	494.00	5	648.0	7.72	2
5KP440A	5KP440CA	440.0	492.00	543.00	5	713.0	7.01	2

Notes: For bidirectional type having VRWM of 12V and less, the IR limit is double.



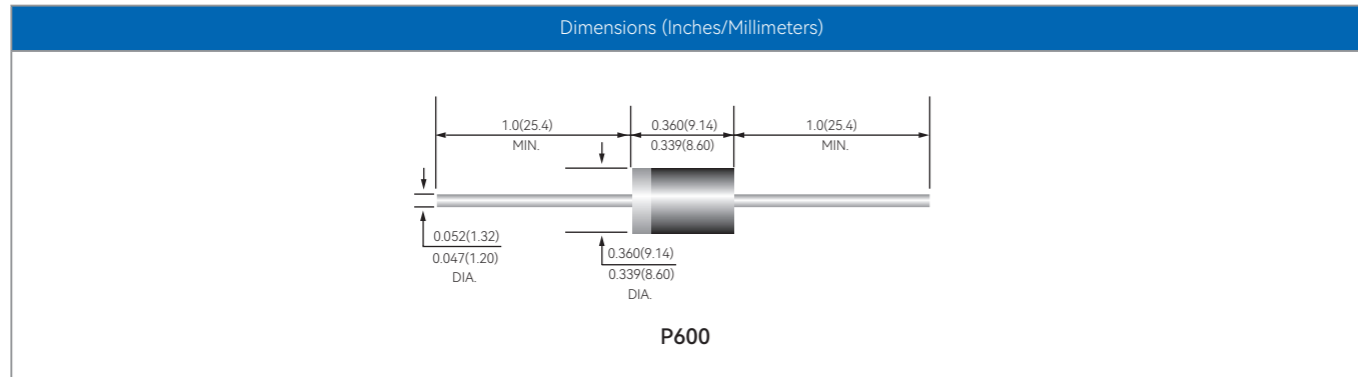
Type Number		Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Max Clamping Voltage 10/1000µs	Peak Pulse Current 10/1000µs	Reverse Leakage
UNI	BI	V	Min(V)	mA	V	A	µA
15000W Transient Voltage Suppressors Diodes(P600) Brea							
15KPA17A	15KPA17CA	17.0	18.99	50	29.3	515.4	5000
15KPA18A	15KPA18CA	18.0	20.11	50	30.9	488.7	5000
15KPA20A	15KPA20CA	20.0	22.34	20	34.3	440.2	1500
15KPA22A	15KPA22CA	22.0	24.57	10	37.1	407.0	500
15KPA24A	15KPA24CA	24.0	26.81	5	40.7	371.0	150
15KPA26A	15KPA26CA	26.0	29.04	5	44.0	343.2	50
15KPA28A	15KPA28CA	28.0	31.28	5	47.5	317.9	25
15KPA30A	15KPA30CA	30.0	33.51	5	50.7	297.8	15
15KPA33A	15KPA33CA	33.0	36.90	5	54.7	276.1	2
15KPA36A	15KPA36CA	36.0	40.20	5	59.8	252.5	2
15KPA40A	15KPA40CA	40.0	44.70	5	65.8	229.5	2
15KPA43A	15KPA43CA	43.0	48.00	5	69.8	216.3	2
15KPA45A	15KPA45CA	45.0	50.30	5	72.8	207.4	2
15KPA48A	15KPA48CA	48.0	53.60	5	77.7	194.3	2
15KPA51A	15KPA51CA	51.0	57.00	5	82.9	182.1	2
15KPA54A	15KPA54CA	54.0	60.30	5	87.7	172.2	2
15KPA58A	15KPA58CA	58.0	64.80	5	93.8	161.0	2
15KPA60A	15KPA60CA	60.0	67.00	5	97.4	155.0	2
15KPA64A	15KPA64CA	64.0	71.50	5	104.2	144.9	2
15KPA70A	15KPA70CA	70.0	78.20	5	113.6	132.9	2
15KPA75A	15KPA75CA	75.0	83.80	5	122.0	123.8	2
15KPA78A	15KPA78CA	78.0	87.10	5	126.1	119.7	2
15KPA85A	15KPA85CA	85.0	94.90	5	137.6	109.7	2
15KPA90A	15KPA90CA	90.0	100.50	5	145.6	103.7	2
15KPA100A	15KPA100CA	100.0	111.70	5	161.3	93.6	2
15KPA110A	15KPA110CA	110.0	122.90	5	178.6	84.5	2
15KPA120A	15KPA120CA	120.0	134.00	5	192.3	78.5	2
15KPA130A	15KPA130CA	130.0	145.20	5	208.3	72.5	2
15KPA150A	15KPA150CA	150.0	167.60	5	241.9	62.4	2
15KPA160A	15KPA160CA	160.0	178.70	5	258.6	58.4	2
15KPA170A	15KPA170CA	170.0	189.90	5	272.7	55.4	2
15KPA180A	15KPA180CA	180.0	201.10	5	288.5	52.3	2
15KPA200A	15KPA200CA	200.0	223.40	5	319.1	47.3	2

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
		V _{RWM}	V _{BR @IT}	I _T	V _{C@IPP}	I _{PP}	I _{R@V_{RWM}}
UNI	BI	V	Min(V)	mA	V	A	μ A
15KPA220A	15KPA220CA	220.0	245.70	5	349.4	43.2	2
15KPA240A	15KPA240CA	240.0	268.10	5	384.6	39.3	2
15KPA260A	15KPA260CA	260.0	290.40	5	416.7	36.2	2
15KPA280A	15KPA280CA	280.0	312.80	5	454.5	33.2	2



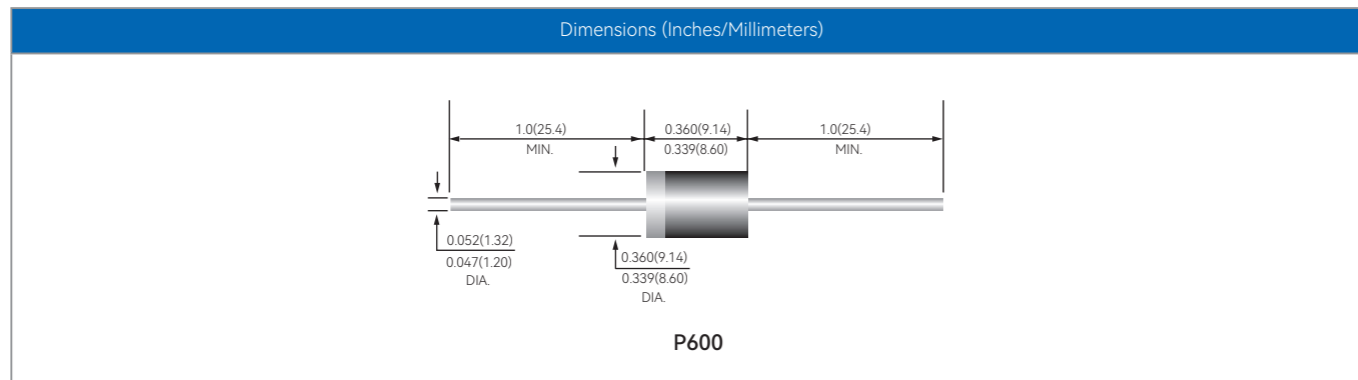
Type Number		Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
		V _{RWM}	V _{BR @IT}	I _T	V _{C@IPP}	I _{PP}	I _{R@V_{RWM}}
UNI	BI	V	Min(V)	mA	V	A	μ A
20000W Transient Voltage Suppressors Diodes(P600)							
20KPA20A	20KPA20CA	20.0	22.34	50	36.8	548.9	5000
20KPA24A	20KPA24CA	24.0	26.81	50	41.2	490.3	5000
20KPA26A	20KPA26CA	26.0	29.04	50	44.7	451.9	2000
20KPA28A	20KPA28CA	28.0	31.28	50	48.0	420.8	1000
20KPA30A	20KPA30CA	30.0	33.51	5	51.5	392.0	250
20KPA32A	20KPA32CA	32.0	35.74	5	54.3	372.0	150
20KPA34A	20KPA34CA	34.0	38.00	5	57.5	351.3	50
20KPA36A	20KPA36CA	36.0	40.20	5	61.5	328.5	20
20KPA40A	20KPA40CA	40.0	44.70	5	67.8	297.9	15
20KPA44A	20KPA44CA	44.0	49.10	5	72.7	277.9	2
20KPA48A	20KPA48CA	48.0	53.60	5	79.4	254.4	2
20KPA52A	20KPA52CA	52.0	58.10	5	85.8	235.4	2
20KPA56A	20KPA56CA	56.0	62.60	5	92.6	218.1	2
20KPA60A	20KPA60CA	60.0	67.00	5	97.6	207.0	2
20KPA64A	20KPA64CA	64.0	71.50	5	104.0	194.2	2
20KPA68A	20KPA68CA	68.0	76.00	5	110.0	183.6	2
20KPA72A	20KPA72CA	72.0	80.40	5	116.0	174.1	2
20KPA80A	20KPA80CA	80.0	89.40	5	130.0	155.4	2
20KPA88A	20KPA88CA	88.0	98.30	5	142.0	142.3	2
20KPA96A	20KPA96CA	96.0	107.20	5	155.0	130.3	2
20KPA104A	20KPA104CA	104.0	116.20	5	168.0	120.2	2
20KPA112A	20KPA112CA	112.0	125.10	5	182.0	111.0	2
20KPA120A	20KPA120CA	120.0	134.00	5	194.0	104.1	2
20KPA132A	20KPA132CA	132.0	147.40	5	213.0	94.8	2
20KPA144A	20KPA144CA	144.0	160.80	5	232.0	87.1	2
20KPA160A	20KPA160CA	160.0	178.70	5	258.0	78.3	2
20KPA172A	20KPA172CA	170.0	192.10	5	277.0	72.9	2
20KPA180A	20KPA180CA	180.0	201.10	5	291.0	69.4	2
20KPA192A	20KPA192CA	192.0	214.50	5	309.0	65.4	2
20KPA204A	20KPA204CA	204.0	227.90	5	329.0	61.4	2
20KPA216A	20KPA216CA	216.0	241.30	5	348.0	58.0	2
20KPA232A	20KPA232CA	232.0	259.10	5	374.0	54.0	2
20KPA240A	20KPA240CA	240.0	268.10	5	387.0	52.2	2

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
		V_{RWM}	$V_{BR @ I_T}$	I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
UNI	BI	V	Min(V)	mA	V	A	μ A
20KPA256A	20KPA256CA	256.0	286.00	5	412.0	49.0	2
20KPA280A	20KPA280CA	280.0	312.80	5	451.0	44.8	2
20KPA300A	20KPA300CA	300.0	335.10	5	483.0	41.8	2

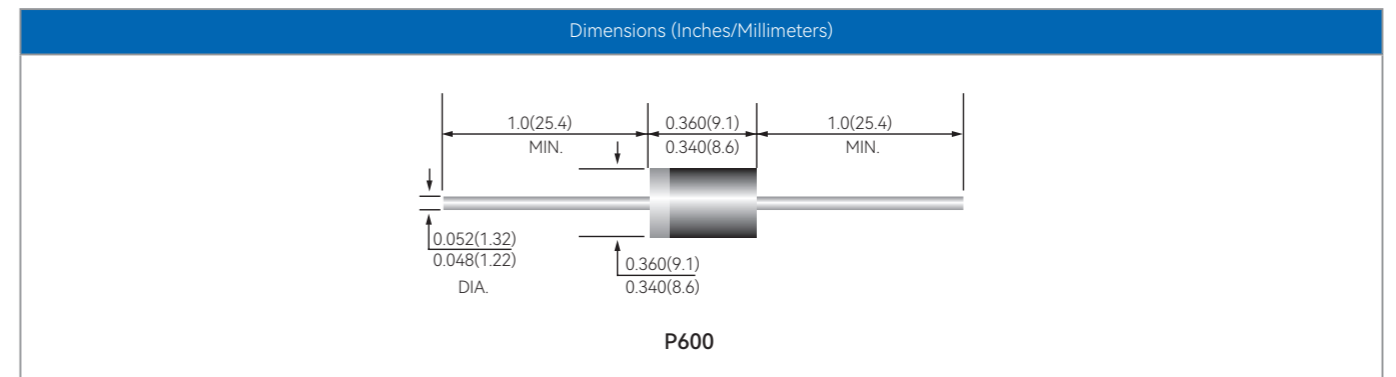


Type Number		Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
		V_{RWM}	$V_{BR @ I_T}$	I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
UNI	BI	V	Min(V)	mA	V	A	μ A
30000W Transient Voltage Suppressors Diodes(P600)							
30KPA28A	30KPA28CA	28.0	31.28	50	50.0	606.0	5000
30KPA30A	30KPA30CA	30.0	33.51	50	55.2	548.9	5000
30KPA33A	30KPA33CA	33.0	36.90	50	58.5	517.9	5000
30KPA36A	30KPA36CA	36.0	40.20	50	61.8	490.3	5000
30KPA39A	30KPA39CA	39.0	43.60	20	67.2	450.9	2000
30KPA42A	30KPA42CA	42.0	46.90	10	72.0	420.8	1000
30KPA43A	30KPA43CA	43.0	48.00	10	73.0	415.1	1000
30KPA45A	30KPA45CA	45.0	50.30	5	77.4	391.5	250
30KPA48A	30KPA48CA	48.0	53.60	5	81.6	371.3	150
30KPA51A	30KPA51CA	51.0	57.00	5	86.4	350.7	50
30KPA54A	30KPA54CA	54.0	60.30	5	91.4	331.5	20
30KPA58A	30KPA58CA	58.0	64.80	5	92.4	327.9	20
30KPA60A	30KPA60CA	60.0	67.00	5	102.0	297.1	15
30KPA64A	30KPA64CA	64.0	71.50	5	104.0	291.3	10
30KPA66A	30KPA66CA	66.0	73.70	5	107.0	283.2	2
30KPA70A	30KPA70CA	70.0	78.20	5	109.0	278.0	2
30KPA71A	30KPA71CA	71.0	79.30	5	111.5	271.7	2
30KPA72A	30KPA72CA	72.0	80.40	5	114.0	265.8	2
30KPA75A	30KPA75CA	75.0	83.80	5	119.4	253.8	2
30KPA78A	30KPA78CA	78.0	87.10	5	129.0	234.9	2
30KPA84A	30KPA84CA	84.0	93.80	5	139.2	217.7	2
30KPA90A	30KPA90CA	90.0	100.50	5	146.4	207.0	2
30KPA96A	30KPA96CA	96.0	107.20	5	156.0	194.2	2
30KPA102A	30KPA102CA	102.0	113.90	5	165.6	183.0	2
30KPA108A	30KPA108CA	108.0	120.60	5	175.2	172.9	2
30KPA120A	30KPA120CA	120.0	134.00	5	194.4	155.9	2
30KPA132A	30KPA132CA	132.0	147.40	5	213.0	142.3	2
30KPA144A	30KPA144CA	144.0	160.80	5	223.2	135.8	2
30KPA150A	30KPA150CA	150.0	167.60	5	233.4	129.8	2
30KPA156A	30KPA156CA	156.0	174.30	5	245.0	123.7	2
30KPA160A	30KPA160CA	160.0	178.70	5	252.6	120.0	2
30KPA168A	30KPA168CA	168.0	187.70	5	272.4	111.2	2
30KPA170A	30KPA170CA	170.0	189.90	5	275.0	110.2	2

Type Number		Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
		V_{RWM}	$V_{BR @ I_T}$	I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
UNI	BI	V	Min(V)	mA	V	A	μ A
30KPA180A	30KPA180CA	180.0	201.10	5	290.4	104.3	2
30KPA198A	30KPA198CA	198.0	221.20	5	319.8	94.7	2
30KPA216A	30KPA216CA	216.0	241.30	5	348.6	86.9	2
30KPA240A	30KPA240CA	240.0	268.10	5	387.0	78.3	2
30KPA258A	30KPA258CA	258.0	288.20	5	416.0	72.8	2
30KPA260A	30KPA260CA	260.0	290.40	5	416.4	72.8	2
30KPA270A	30KPA270CA	270.0	301.60	5	436.2	69.5	2
30KPA280A	30KPA280CA	280.0	312.80	5	464.0	65.3	2
30KPA288A	30KPA288CA	288.0	321.70	5	469.9	64.5	2
30KPA300A	30KPA300CA	300.0	334.0	5	484.0	62.0	2



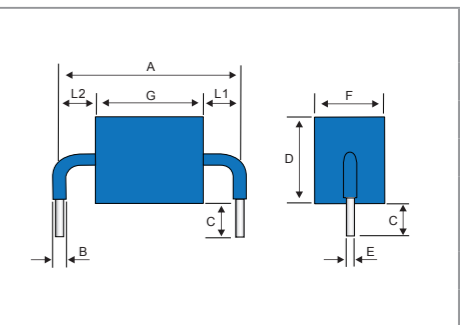
Type Number		Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
		V_{RWM}	$V_{BR @ I_T}$		I_T	$V_C @ I_{PP}$	I_{PP}	$I_R @ V_{RWM}$
UNI	BI	V	Min(V)	Max(V)	mA	V	A	μ A
5KP-TR Series								
5KP10A-TR	5KP10CA-TR	10	11.8	13	5	17	350	10
5KP11A-TR	5KP11CA-TR	11	12.2	13.5	5	18.2	327	10
5KP12A-TR	5KP12CA-TR	12	13.3	14.7	5	19.2	300	10
5KP13A-TR	5KP13CA-TR	13	14.4	15.9	5	21.5	277	10
5KP14A-TR	5KP14CA-TR	14	15.6	17.2	5	23.2	257	10
5KP15A-TR	5KP15CA-TR	15	16.7	18.5	5	24.4	245	10
5KP16A-TR	5KP16CA-TR	16	17.8	19.7	5	26	229	10
5KP17A-TR	5KP17CA-TR	17	18.9	20.9	5	27.6	216	10
5KP18A-TR	5KP18CA-TR	18	20	22.1	5	29.2	204	10
5KP20A-TR	5KP20CA-TR	20	22.2	24.5	5	32.4	184	10
5KP22A-TR	5KP22CA-TR	22	24.4	26.9	5	35.5	168	10
5KP26A-TR	5KP26CA-TR	26	28.9	31.9	5	42.1	142	10
5KP28A-TR	5KP28CA-TR	28	31.1	34.4	5	45.4	131	10
5KP30A-TR	5KP30CA-TR	30	33.3	36.8	5	48.4	123	10
5KP33A-TR	5KP33CA-TR	33	36.7	40.6	5	53.3	112	10
5KP36A-TR	5KP36CA-TR	36	40	44.2	5	58.1	103	10
5KP40A-TR	5KP40CA-TR	40	44.4	49.1	5	64.5	92.5	10
5KP43A-TR	5KP43CA-TR	43	49	54.2	5	69.4	86	10
5KP60A-TR	5KP60CA-TR	60	68.4	75.6	5	96.8	61.5	10

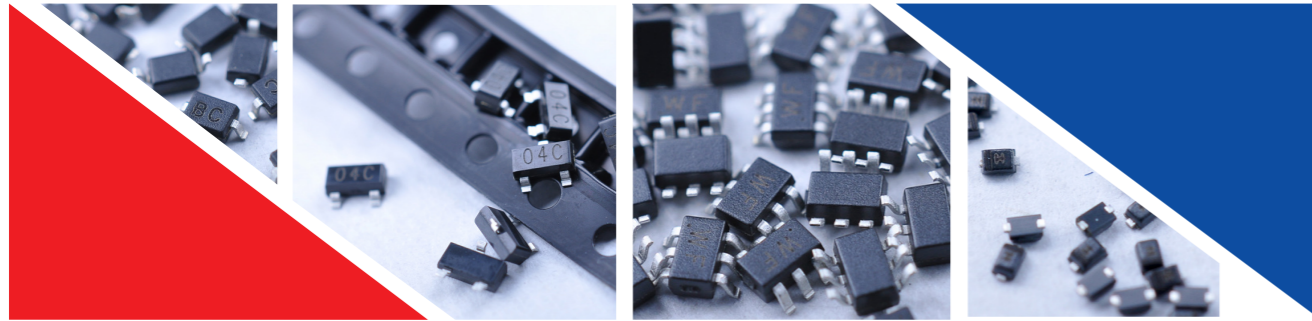


Type Number	Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 10/1000 μ s	Peak Pulse Current 10/1000 μ s	Reverse Leakage
	V_{RWM}	$V_{BR}@I_T$		I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$
	V	Min(V)	Max(V)	mA	V	A	(μ A)
1000A Transient Voltage Suppressors Diodes							
AK1 - 076C	76	85	95	10	140	1000	15
3000A Transient Voltage Suppressors Diodes							
AK3 - 015C	15	16	19	10	30	3000	20
AK3 - 030C	30	32	37	10	90	3000	20
AK3 - 058C	58	64	70	10	110	3000	20
AK3 - 066C	66	72	80	10	120	3000	20
AK3 - 076C	76	85	95	10	140	3000	20
AK3 - 150C	150	158	194	10	230	3000	20
AK3 - 170C	170	179	220	10	260	3000	20
AK3 - 380C	380	401	443	10	520	3000	20
AK3 - 430C	430	440	490	10	625	3000	20
6000A Transient Voltage Suppressors Diodes							
AK6 - 025C	25	28	32	10	80	6000	15
AK6 - 030C	30	32	37	10	90	6000	15
AK6 - 042C	42	47	58	10	100	6000	15
AK6 - 058C	58	64	70	10	110	6000	15
AK6 - 066C	66	72	80	10	120	6000	15
AK6 - 076C	76	85	95	10	140	6000	15
AK6 - 170C	170	180	220	10	260	6000	15
AK6 - 190C	190	200	245	10	290	6000	15
AK6 - 240C	240	250	285	10	340	6000	15
AK6 - 350C	350	375	416	10	498	6000	15
AK6 - 380C	380	401	443	10	520	6000	15
AK6 - 430C	430	440	490	10	625	6000	15

Type Number	Reverse Stand-Off Voltage	Breakdown Voltage		Test Current	Max Clamping Voltage 8/20 μ s	Peak Pulse Current 8/20 μ s	Reverse Leakage
	V_{RWM}	$V_{BR}@I_T$		I_T	$V_C@I_{PP}$	I_{PP}	$I_R@V_{RWM}$
	V	Min(V)	Max(V)	mA	V	A	(μ A)
10000A Transient Voltage Suppressors Diodes							
AK10 - 030C	30	33	37	10	60	10000	20
AK10 - 058C	58	64	70	10	110	10000	20
AK10 - 380C	380	401	443	10	520	10000	20
AK10 - 430C	430	440	484	10	625	10000	10
15000A Transient Voltage Suppressors Diodes							
AK15 - 058C	58	64	70	10	110	15000	15
AK15 - 066C	66	72	80	10	120	15000	15
AK15 - 076C	78	85	95	10	150	15000	15

Series	Package Dimensions (mm)							
	A	B	C	D	E	F	G	L1/L2
AK1	± 1	± 0.6	± 1	max	± 0.05	max	± 1	± 1
AK3	24.15	2.40	3.68	14.48	1.27	9.50	14.80	10.90
AK6	24.15	2.40	6.00	14.48	1.27	12.70	13.80	7.87
AK10	24.15	2.40	6.00	14.48	1.27	12.70	27.00	9.96
AK15	24.15	2.40	6.00	16.00	1.27	14.50	8.91	7.87





产品特点 Features

<p>反应速度快, 低电容 Fast response time, low capacitance.</p>	<p>体积小 Small package size.</p>
<p>节省了占板空间 Save the plate space.</p>	<p>有助于保护敏感的电子电路不受静电放电事件的破坏 Contribute to protect the sensitive circuit from the damage of ESD.</p>
<p>功率多样性, 能适应不同防护等级电路使用 Designed and manufacture TVS products to meet customer specifications.</p>	

应用范围 Application

HDMI接口	便携设备 PDA/DSC/蓝牙	USB2.0 IEEE1394接口	GPS系统	通讯设备
HDMI Interface	Portable Equipment PDA, DSC, Bluetooth	USB2.0 and IEEE1394 Interface	GPS System	Communications Equipment

静电保护阵列 Electrostatic Discharged Protection Devices (ESD)

DFN0603 Series	97
DFN1006 Series	97
DFN1109 Series	98
DFN1610 Series	99
DFN2010 Series	99
DFN2510 Series	99
DFN2020 Series	100
DFN3310 Series	100
DFN2626 Series	100
DFN3810 Series	100
DFN4120 Series	100
SOD923 Series	100
SOD-523 Series	101
SOD-323 Series	101
SOD123 Series	102
SOT-23 Series	102
SOT23-6 Series	103
SOT-523 Series	104
SOT-353 Series	104
SOT-363 Series	104
SOT-143 Series	104
SOP-8 Series	104
0201 Series	105
0402 Series	105
0603 Series	107

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Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20μs	Peak Pulse Current @8/20μs	Peak Pulse Power @8/20μs	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_C@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μA	pF		
RL0201Q0331UC	3.3	8	4	6	30	0.1	0.25	DFN0603-2L	Fig.1
RL0201Q0501UC	5	6	8	5	50	0.5	0.25	DFN0603-2L	Fig.1
RL0201Q0551UC	5.5	9	10	3.5	60	0.1	0.4	DFN0603-2L	Fig.1
RL0201Q1801LC	18	19	8	7	56	0.5	0.6	DFN0603-2L	Fig.1
RL0201Q2201UC	22	24	8	4	32	0.5	0.45	DFN0603-2L	Fig.1
RL0201Q0251C	2.5	3.3	8	8	60	0.5	20	DFN0603-2L	Fig.1
RL0201Q0331CH	3.3	4	9	18	160	1	30	DFN0603-2L	Fig.1
RL0201Q0331C	3.3	3.5	8	10	80	0.5	18	DFN0603-2L	Fig.1
RL0201Q0501C	5	5.5	11	6	65	0.5	12	DFN0603-2L	Fig.1
RL0201Q0501CH	5	5.8	8	17	170	0.5	25	DFN0603-2L	Fig.1
RL0201Q1201C	12	13.3	16	8	120	0.5	10	DFN0603-2L	Fig.1
RLSD92Q051LV	5	6	9.8	3	45	0.5	0.7	DFN1006-2L	Fig.2
RLSD92Q051LVM	5	6	13	7	70	0.5	1.2	DFN1006-2L	Fig.2
RLSD92Q031V	3.3	5	7.4	13.5	150	1	70	DFN1006-2L	Fig.2
RLSD92Q051V	5	6	9.8	4	40	1	35	DFN1006-2L	Fig.2
RLSD92Q0631VH	6.3	6.8	15	52	720	1	450	DFN1006-2L	Fig.2
RLSD92Q0651VH	6.5	6.8	11	40	450	0.5	270	DFN1006-2L	Fig.2
RLSD92Q071VH	7	7.5	15	28	400	0.5	210	DFN1006-2L	Fig.2
RLSD92Q121V	12	13.3	20	16	320	0.5	80	DFN1006-2L	Fig.2
RLSD92Q121VH	12	13.3	24	70	1600	1	110	DFN1006-2L	Fig.2
RLSD92Q151V	15	16.7	30	10	300	0.5	65	DFN1006-2L	Fig.2
RLSD92Q151VM	15	16.7	27	17	450	0.5	90	DFN1006-2L	Fig.2
RLSD92Q151VH	15	16.7	28	38	1000	1	90	DFN1006-2L	Fig.2
RLSD92Q181VH	18	19.8	32	30	900	1	85	DFN1006-2L	Fig.2
RLSD92Q201VH	20	22	36	30	1000	1	65	DFN1006-2L	Fig.2
RLSD92Q241V	24	26.7	40	8	320	0.5	35	DFN1006-2L	Fig.2
RLSD92Q241VH	24	26.7	35	40	1400	1	60	DFN1006-2L	Fig.2
RLSD92Q361V	36	40	70	5	350	0.5	30	DFN1006-2L	Fig.2

Circuit Figure

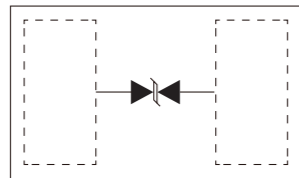


Fig.1

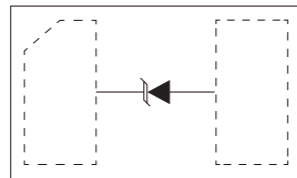


Fig.2

Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20μs	Peak Pulse Current @8/20μs	Peak Pulse Power @8/20μs	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_C@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μA	pF		
RLSD92Q0101UC	1	1.3	8	4	32	1	0.4	DFN1006-2L	Fig.1
RLSD92Q0281UC	2.8	7	9	5	45	0.5	0.45	DFN1006-2L	Fig.1
RLSD92Q031LC	3.3	4.8	7.5	7	50	0.5	0.75	DFN1006-2L	Fig.1
RLSD92Q051UC	5	6	16	4	60	0.5	0.25	DFN1006-2L	Fig.1
RLSD92Q051LCM	5	6	16	7	100	0.5	0.7	DFN1006-2L	Fig.1
RLSD92Q051LCH	5	6	12	14	230	1	1.5	DFN1006-2L	Fig.1
RLSD92Q181LC	18	19	27	1.5	32	0.5	0.25	DFN1006-2L	Fig.1
RLSD92Q221LC	22	24	8	4	32	0.5	0.65	DFN1006-2L	Fig.1
RLSD92Q0251C	2.5	3.3	5	8	60	0.5	20	DFN1006-2L	Fig.1
RLSD92Q031C	3.3	3.8	8	10	80	0.5	17	DFN1006-2L	Fig.1
RLSD92Q031CH	3.3	4.5	9	18	160	1	30	DFN1006-2L	Fig.1
RLSD92Q0431CH	4.3	4.5	11	45	500	1	100	DFN1006-2L	Fig.1
RLSD92Q0451C	4.5	4.8	10	12	120	0.5	80	DFN1006-2L	Fig.1
RLSD92Q051C	5	5.5	10	8	80	1	17	DFN1006-2L	Fig.1
RLSD92Q051NC	5	5.5	8	3	30	0.1	5	DFN1006-2L	Fig.1
RLSD92Q051CM	5	6	13	16	200	0.5	40	DFN1006-2L	Fig.1
RLSD92Q051CH	5	6.5	12	40	480	0.5	140	DFN1006-2L	Fig.1
RLSD92Q0631CH	6.3	7	16	60	950	1	200	DFN1006-2L	Fig.1
RLSD92Q0651CH	6.5	7	12	40	480	1	140	DFN1006-2L	Fig.1
RLSD92Q081C	8	9	17	18	300	0.5	17	DFN1006-2L	Fig.1
RLSD92Q121C	12	13.3	23.6	8	120	1	10	DFN1006-2L	Fig.1
RLSD92Q151C	15	16.7	30	6	180	0.5	20	DFN1006-2L	Fig.1
RLSD92Q181C	18	19.5	35	5.5	190	0.5	15	DFN1006-2L	Fig.1
RLSD92Q241C	24	26.7	44	6	240	0.5	20	DFN1006-2L	Fig.1
RLSD92Q361C	36	40	90	6	550	0.5	15	DFN1006-2L	Fig.1
RLSD92Q0502LV	5	6	10	5	75	0.5	0.8	DFN1006-3L	Fig.2
RLSD92Q0332CH	3.3	3.8	10	22	220	0.5	20	DFN1006-3L	Fig.3
RLSD92Q0502LC	5	6	10	3	30	0.5	3.5	DFN1006-3L	Fig.3
RLSD92Q0502C	5	6	10	8	80	0.5	20	DFN1006-3L	Fig.3
RL11096Q0502LC	5	6	18	3	50	0.5	0.2	DFN1109-6L	Fig.4

Circuit Figure

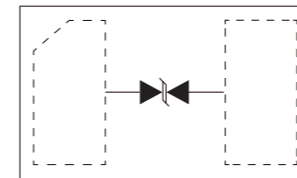


Fig.1

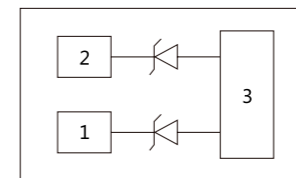


Fig.2

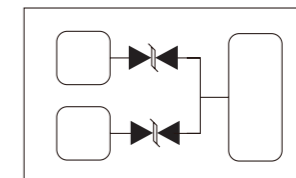


Fig.3

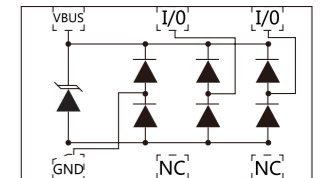
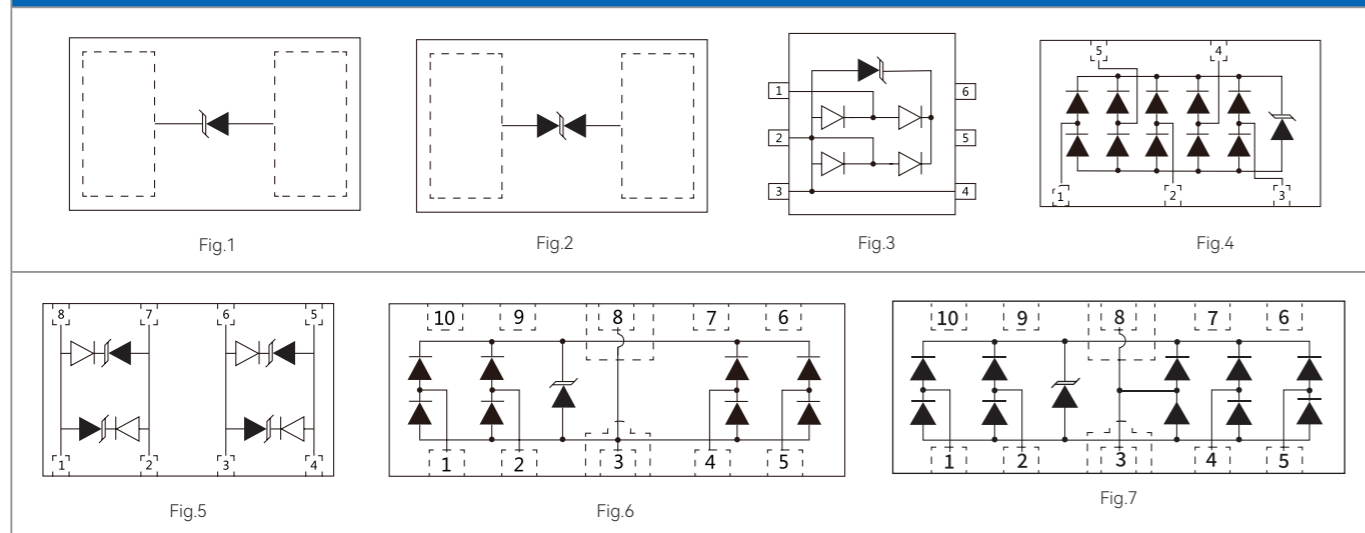


Fig.4

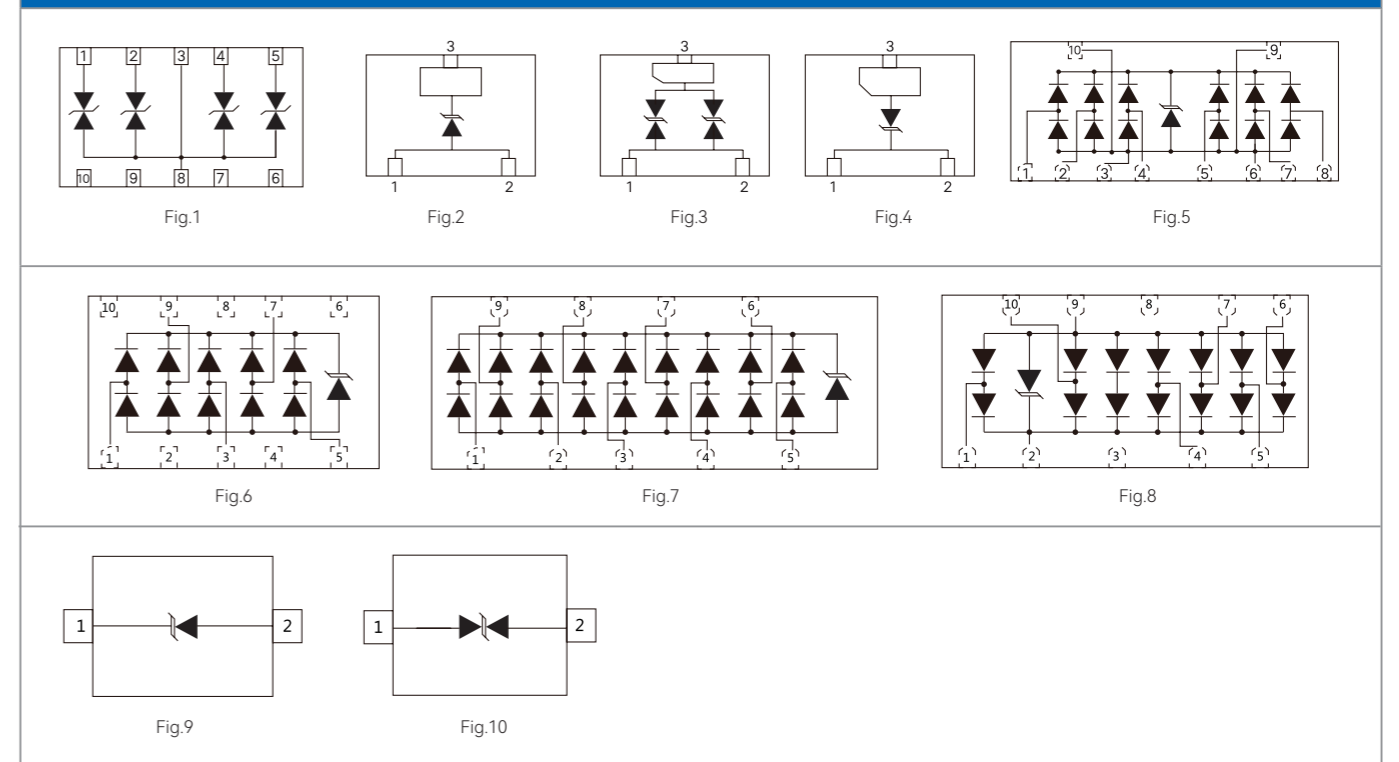
Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20 μ s	Peak Pulse Current @8/20 μ s	Peak Pulse Power @8/20 μ s	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_c@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μ A	pF		
RL1610Q0681V	6.8	7	14	80	1100	1	550	DFN1610-2L	Fig.1
RL1610Q0681VH	6.8	7	20	120	2400	1	1100	DFN1610-2L	Fig.1
RL1610Q091V	9	10	23	90	1800	0.5	525	DFN1610-2L	Fig.1
RL1610Q121V	12	13.3	25	75	1800	1	450	DFN1610-2L	Fig.1
RL1610Q1501VH	15	16.7	30	120	3600	1	320	DFN1610-2L	Fig.1
RL1610Q181V	18	19.6	38	50	1800	0.1	350	DFN1610-2L	Fig.1
RL1610Q241V	24	26.7	54	35	1800	0.1	200	DFN1610-2L	Fig.1
RL1610Q361V	36	37	75	25	1800	0.1	150	DFN1610-2L	Fig.1
RL1610Q0331C	3.3	3.8	20	160	3200	0.5	570	DFN1610-2L	Fig.2
RL1610Q0501C	5	6.1	12	45	480	1	140	DFN1610-2L	Fig.2
RL1610Q0601C	6	6.8	18	150	2700	1	570	DFN1610-2L	Fig.2
RL1610Q0631C	6.3	7	14	80	1100	1	280	DFN1610-2L	Fig.2
RL1610Q0681C	6.8	7.2	16	120	1800	1	400	DFN1610-2L	Fig.2
RL1610Q0701C	7	7.2	20	45	450	1	140	DFN1610-2L	Fig.2
RL16106Q0502UV	5	6	15	3.5	60	0.5	0.4	DFN1610-6L	Fig.3
RL20105Q054LC	5	6	10	3	45	0.5	0.3	DFN2010-5L	Fig.4
RL20108Q252C	2.5	3.5	5	20	200	0.1	3	DFN2010-8L	Fig.5
RL20108Q0252LC	2.5	3.5	9	10	100	0.1	0.8	DFN2010-8L	Fig.5
RL20108Q0332LC	3.3	4	15	10	100	0.1	0.8	DFN2010-8L	Fig.5
RLDSON8Q252LC	2.5	4	15	20	200	0.1	0.8	DFN2010-8L	Fig.5
RLDSON10Q034LV	3.3	12	7	4.5	35	0.2	0.6	DFN2510-10L	Fig.6
RLDSON10Q054LV	5	5.5	11	4	40	0.5	0.7	DFN2510-10L	Fig.6
RLDSON10Q034UC	3.3	12	7	4.5	35	0.2	0.4	DFN2510-10L	Fig.7
RLDSON10Q054UC	5	6	11	4	40	0.5	0.4	DFN2510-10L	Fig.7

Circuit Figure



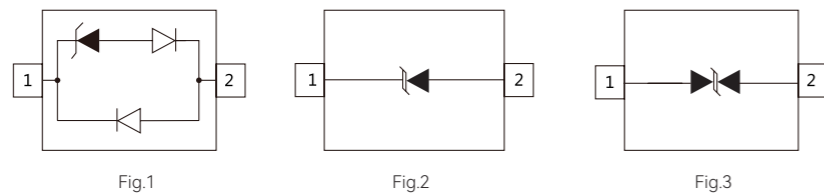
Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20 μ s	Peak Pulse Current @8/20 μ s	Peak Pulse Power @8/20 μ s	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_c@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μ A	pF		
RLDSON10Q034LC	3.3	4	7.5	10	200	1	10	DFN2510-10L	Fig.1
RL20203Q0451V	4.5	5	25	200	5000	1	720	DFN2020-3L	Fig.2
RL20203Q0431C	4.3	4.5	25	250	6000	1	570	DFN2020-3L	Fig.3
RL20203Q0751V	7	8	9	240	6000	1	1500	DFN2020-3L	Fig.2
RL20203Q101V	10	11	13	180	3600	1	1000	DFN2020-3L	Fig.2
RL20203Q1201V	12	13.3	30	190	5700	1	1500	DFN2020-3L	Fig.2
RL20203Q1501V	15	16	37	160	5000	1	1100	DFN2020-3L	Fig.2
RL20203Q2401V	24	26.5	45	110	5000	1	750	DFN2020-3L	Fig.2
RL20203Q2401VR	24	26.5	45	180	8100	1	700	DFN2020-3L	Fig.4
RL331010Q0506LV	5	6	10	3	30	0.5	0.4	DFN3310-10L	Fig.5
RL262610Q0335LV	3.3	4	17	26	400	0.5	5.5	DFN2626-10L	Fig.6
RL38109Q0508LC	5	6	10	3	30	0.5	0.2	DFN3810-9L	Fig.7
RL412010Q0507LV	5	6	10	3	30	0.5	0.4	DFN4120-10L	Fig.8
RLSD92A031V	3.3	5	9.8	10	150	1	80	SOD923	Fig.9
RLSD92A051V	5	6	12.3	8	150	1	65	SOD923	Fig.9
RLSD92A051LV	5	6	9.8	3.5	60	0.5	0.7	SOD923	Fig.9
RLSD92A121V	12	13.3	24	5.9	150	1	30	SOD923	Fig.9
RLSD92A031C	3.3	5	8	10	80	0.5	25	SOD923	Fig.10
RLSD92A051C	5	6	8	8	70	0.5	15	SOD923	Fig.10
RLSD92A051LC	5	6	9.8	3	70	0.5	0.7	SOD923	Fig.10
RLSD92A081C	8	9.3	15	4	120	0.1	30	SOD923	Fig.10

Circuit Figure



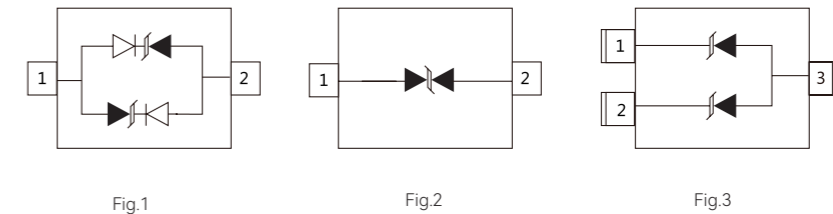
Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20μs	Peak Pulse Current @8/20μs	Peak Pulse Power @8/20μs	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_C@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μA	pF		
RLSD52A051LV	5	6	9.8	7	100	1	2	SOD-523	Fig.1
RLSD52A031V	3.3	4	14	11.2	200	1	105	SOD-523	Fig.2
RLSD52A051V	5	6	19	9	200	0.5	130	SOD-523	Fig.2
RLSD52A121V	12	13.3	22	7	150	1	42	SOD-523	Fig.2
RLSD52A151V	15	16.7	32	5	150	1	50	SOD-523	Fig.2
RLSD52A181V	18	19.8	27	8	200	1	45	SOD-523	Fig.2
RLSD52A241V	24	26.7	35	3	150	1	25	SOD-523	Fig.2
RLSD52A361V	36	40	55	4	220	1	30	SOD-523	Fig.2
RLSD52A051UC	5	6	20	3	60	0.5	0.35	SOD-523	Fig.3
RLSD52A051LC	5	6	16	5	100	0.5	0.7	SOD-523	Fig.3
RLSD52A031C	3.3	4	16	8	80	0.5	18	SOD-523	Fig.3
RLSD52A031CH	3.3	3.7	13	40	500	0.5	100	SOD-523	Fig.3
RLSD52A051C	5	6	10	7	70	1	12	SOD-523	Fig.3
RLSD52A051NC	5	6	11	6	85	0.1	9	SOD-523	Fig.3
RLSD52A051CM	5	6	20	20	400	1	35	SOD-523	Fig.3
RLSD52A051CH	5	6	15	35	520	0.5	140	SOD-523	Fig.3
RLSD52A071C	7	8	25	15	350	1	50	SOD-523	Fig.3
RLSD52A081C	8	9.3	17.5	3	100	1	7	SOD-523	Fig.3
RLSD52A121C	12	13.3	16	8	120	0.5	10	SOD-523	Fig.3
RLSD32A031V	3.3	5	15	20	300	1	195	SOD-323	Fig.2
RLSD32A0451VH	4.5	4.8	18	140	2500	1	1000	SOD-323	Fig.2
RLSD32A051V	5	6	14	20	350	1	200	SOD-323	Fig.2
RLSD32A071VH	7	8	9	120	2400	1	800	SOD-323	Fig.2
RLSD32A081V	8	9	25	15	350	1	90	SOD-323	Fig.2
RLSD32A121V	12	13.3	22	15	350	1	70	SOD-323	Fig.2
RLSD32A121VM	12	13.3	20	40	800	1	150	SOD-323	Fig.2
RLSD32A121VH	12	13.3	25	75	1800	1	300	SOD-323	Fig.2
RLSD32A151V	15	16.7	35	10	350	0.5	45	SOD-323	Fig.2
RLSD32A181V	18	19.8	30	5.5	180	0.5	30	SOD-323	Fig.2
RLSD32A241V	24	26.7	42	8	320	1	45	SOD-323	Fig.2
RLSD32A361V	36	40	65	5	350	1	28	SOD-323	Fig.2
RLSD32A031LV	3.3	4	24	15	350	1	1.2	SOD-323	Fig.1
RLSD32A051LV	5	6	25	14	350	1	1.2	SOD-323	Fig.1
RLSD32A121LV	12	13.3	19	7	350	1	1.2	SOD-323	Fig.1

Circuit Figure



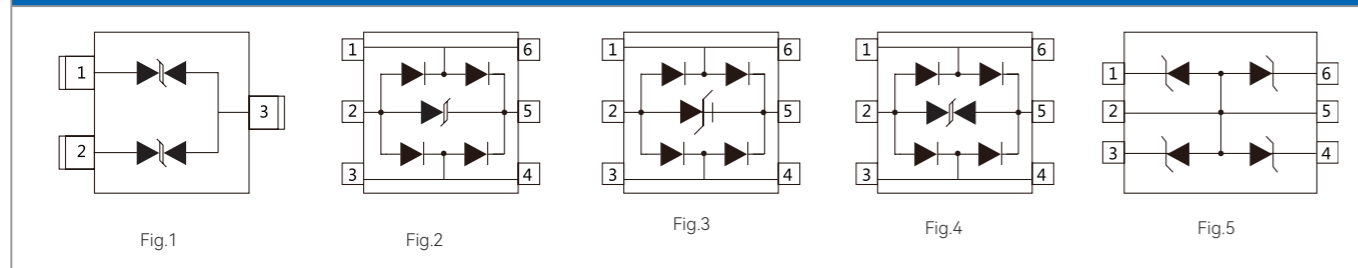
Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20μs	Peak Pulse Current @8/20μs	Peak Pulse Power @8/20μs	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_C@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μA	pF		
RLSD32A031LC	3	4	19	20	350	1	1	SOD-323	Fig.1
RLSD32A051LCS	5	6	23	14	280	1	1.5	SOD-323	Fig.1
RLSD32A051LC	5	6	20	20	350	1	1	SOD-323	Fig.1
RLSD32A081LC	8	9	20	20	400	1	1	SOD-323	Fig.1
RLSD32A121LC	12	13.3	28	11	300	1	1	SOD-323	Fig.1
RLSD32A151LC	15	16.7	30	13	400	1	1	SOD-323	Fig.1
RLSD32A181LC	18	19.8	38	5.5	240	1	1	SOD-323	Fig.1
RLSD32A241LC	24	25.6	45	9	400	1	1	SOD-323	Fig.1
RLSD32A361LC	36	40	60	5	300	1	1	SOD-323	Fig.1
RLSD32A031C	3.3	4	16	25	320	1	350	SOD-323	Fig.2
RLSD32A031CH	3.3	4	20	150	3000	1	630	SOD-323	Fig.2
RLSD32A0451CH	4.5	5	6	160	2700	1	600	SOD-323	Fig.2
RLSD32A051C	5	6	15	24	360	1	80	SOD-323	Fig.2
RLSD32A051CH	5	6	15	40	480	0.5	140	SOD-323	Fig.2
RLSD32A071CH	7	7.5	20	65	1800	1	390	SOD-323	Fig.2
RLSD32A081C	8	9	18	20	350	1	50	SOD-323	Fig.2
RLSD32A081CM	8	9	17	27	450	1	70	SOD-323	Fig.2
RLSD32A121C	12	13.3	24	15	320	1	35	SOD-323	Fig.2
RLSD32A151C	15	16.7	30	12	350	0.5	30	SOD-323	Fig.2
RLSD32A181C	18	19.8	30	11	330	0.5	25	SOD-323	Fig.2
RLSD32A241C	24	26.7	40	9	360	0.5	19	SOD-323	Fig.2
RLSD32A301C	30	33	55	9	500	0.5	30	SOD-323	Fig.2
RLSD32A361C	36	40	65	4	350	0.5	15	SOD-323	Fig.2
RLSD12A0251C	2.5	3.3	10	40	400	1	85	SOD123	Fig.2
RLST23A032V	3	4	15	20	300	0.5	135	SOT-23	Fig.3
RLST23A052V	5	6	11	20	220	1	190	SOT-23	Fig.3
RLST23A052UV	5	6	11	3.5	45	1	0.4	SOT-23	Fig.3
RLST23A082V	8	9	25	15	350	0.5	35	SOT-23	Fig.3
RLST23A122V	12	13.3	32	5	350	1	100	SOT-23	Fig.3
RLST23A152V	15	16.7	35	10	350	0.5	28	SOT-23	Fig.3
RLST23A202VH	20	22	30	35	1000	0.5	65	SOT-23	Fig.3
RLST23A242V	24	26.7	44	6	240	0.5	12	SOT-23	Fig.3
RLST23A362V	36	40	75	4	300	0.5	25	SOT-23	Fig.3

Circuit Figure



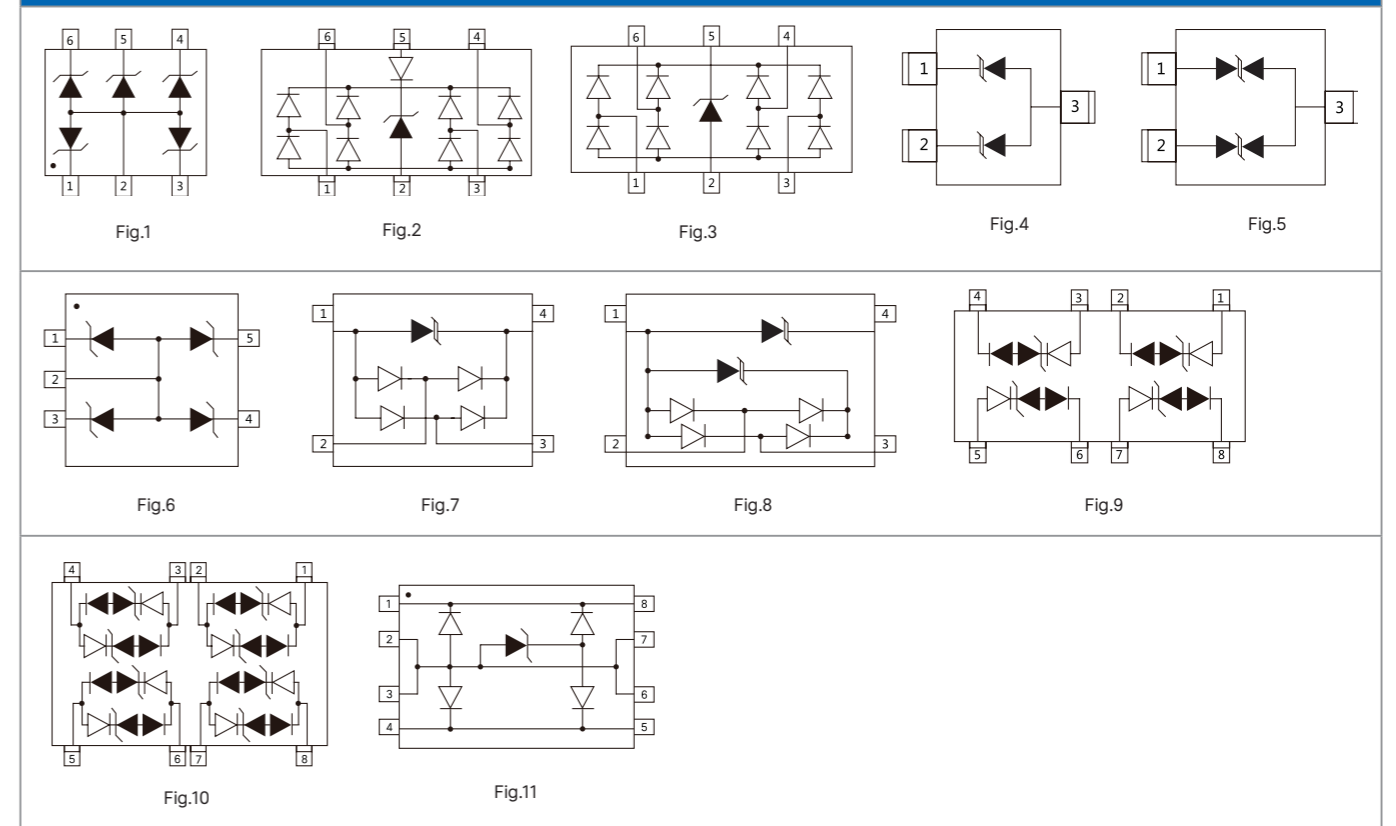
Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20μs	Peak Pulse Current @8/20μs	Peak Pulse Power @8/20μs	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_C@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μA	pF		
RLST23A032C	3.3	4	12	20	350	0.5	220	SOT-23	Fig.1
RLST23A032CM	3	4	12	40	480	0.5	80	SOT-23	Fig.1
RLST23A032CH	3.3	4	12	45	550	0.5	80	SOT-23	Fig.1
RLST23A052C	5	6	20	20	350	0.5	65	SOT-23	Fig.1
RLST23A052LC	5	5.5	11	3.5	40	0.5	3.5	SOT-23	Fig.1
RLST23A052CH	5	6	12	40	500	0.5	140	SOT-23	Fig.1
RLST23A082C	8	9	18	20	350	0.5	75	SOT-23	Fig.1
RLST23A712C	7 12	7.5 13.3	18 26	20 12	340	1.0	30 30	SOT-23	Fig.1
RLST23A712CH	7 12	8.0 13.3	20 28	28 20	500	1.0	60 60	SOT-23	Fig.1
RLST23A122C	12	13.3	30	12	350	0.5	45	SOT-23	Fig.1
RLST23A152C	15	16.7	30	9	270	0.5	40	SOT-23	Fig.1
RLST23A242C	24	26.7	40	9	350	0.5	40	SOT-23	Fig.1
RLST23A362C	36	40	60	6	360	0.5	15	SOT-23	Fig.1
RLST236A032LV	3.3	4	20	40	800	0.5	2.2	SOT23-6	Fig.2
RLST236A052LV	5	6	9.8	5	300	1.0	1.5	SOT23-6	Fig.2
RLST236A242LVH	24	31	25	50	1500	0.5	1.2	SOT23-6	Fig.3
RLST236A032LC	3.3	4	20	40	800	0.5	2.2	SOT23-6	Fig.4
RLST236A082LC	8	13	25	22	500	0.5	0.7	SOT23-6	Fig.4
RLST236A082LCH	8	13	35	55	1800	0.5	1.2	SOT23-6	Fig.4
RLST236A054V	5	6	27	23	350	1.0	150	SOT23-6	Fig.5

Circuit Figure



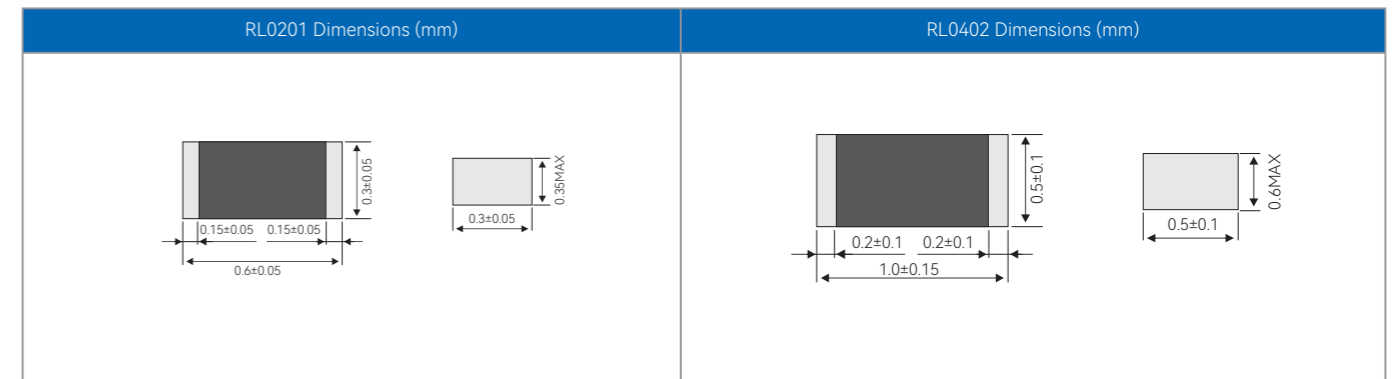
Part Number	Reverse Stand-Off Voltage	Min Breakdown Voltage	Clamping Voltage @8/20μs	Peak Pulse Current @8/20μs	Peak Pulse Power @8/20μs	Reverse Leakage Current	Typical Capacitance @1MHz	Package	Circuit Figure
	V_{RWM}	$V_{BR@1mA}$	$V_C@1A$	I_{PP}	P_{PP}	$I_R@V_{RWM}$	C_j		
	V	V	V	A	W	μA	pF		
RLST236A055V	5	6	9.8	24	350	1	200	SOT23-6	Fig.1
RLST236A054UV	5	6	10	3	30	0.5	0.35	SOT23-6	Fig.2
RLST236A054LV	5	6	16	4.5	30	0.5	1	SOT23-6	Fig.3
RLST236A054LVM	5	6	15	12	300	0.5	3	SOT23-6	Fig.3
RLST236A054LVH	5	6	12	20	400	0.5	3	SOT23-6	Fig.3
RLST236A054LVR	5	6	9.5	5	60	0.5	0.8	SOT23-6	Fig.2
RLST52A052LV	5	6	10	3.5	35	0.5	0.65	SOT-523	Fig.4
RLST52A052C	5	6	10	10	100	1	10	SOT-523	Fig.5
RLST353A054V	5	6	9.8	15	150	1	90	SOT-353	Fig.6
RLST363A054UV	5	6	10	3.5	30	0.5	0.35	SOT-363	Fig.3
RLST143A053LV	5	6	16	6	100	0.5	0.6	SOT-143	Fig.7
RLST143A052LVX	5	6	10	3.5	40	0.5	0.65	SOT-143	Fig.8
RLSO8A2.84LV	2.8	3	5	40	800	0.5	1.5	SOP-8	Fig.9
RLSO8A2.88LC	2.8	3	8.5	25	500	0.5	3	SOP-8	Fig.10
RLSO8A032LC	3.3	4	7.5	100	1800	0.5	5	SOP-8	Fig.11
RLSO8A062LC	6	6.8	20	50	2000	20	15	SOP-8	Fig.11

Circuit Figure



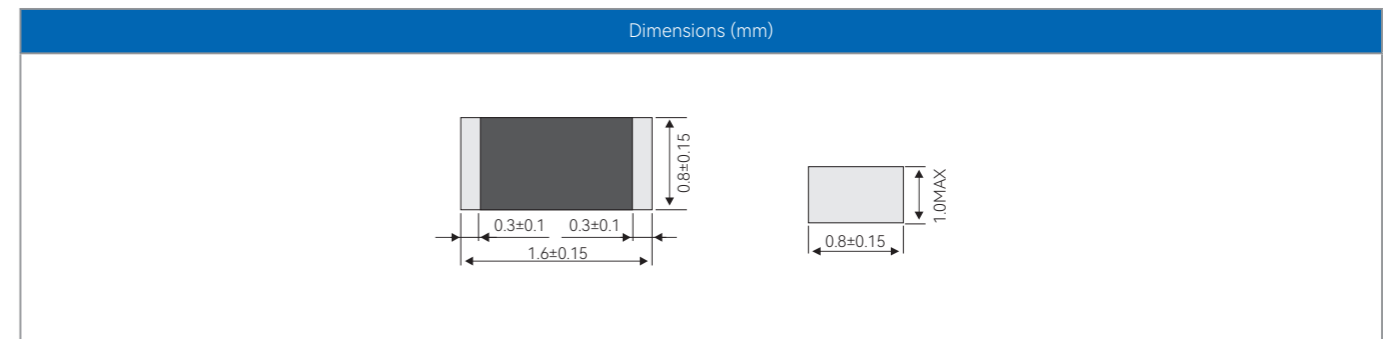
Part Number	Max Operating Voltage Vdc	Max Leakage Current	Capacitance @1Mhz	Trigger Voltage	Clamping Voltage (8/20μs)	Package
	V	μA	pF	V	V	
RL0201E005M300K	5	1	3	31-38	58	0201
RL0201E005M500K	5	1	5	22-28	40	0201
RL0201E005M101K	5	1	10	22-28	40	0201
RL0201E005M121K	5	1	12	22-28	40	0201
RL0201E009M101K	9	1	3	31-38	58	0201
RL0201E009M101K	9	1	5	22-28	40	0201
RL0201E009M101K	9	1	10	22-28	40	0201
RL0201E009M121K	9	1	12	22-28	40	0201
RL0201E014M300K	14	1	3	31-38	58	0201
RL0201E014M500K	14	1	5	22-28	40	0201
RL0201E018M300K	18	1	3	31-38	58	0201
RL0402E005M005K	5	0.001	0.05	450	50	0402
RL0402E005M015K	5	0.05	0.15	250	50	0402
RL0402E005M100K	5	1	1	100	50	0402
RL0402E005M200K	5	1	2	50	25	0402
RL0402E005M300K	5	1	3	50	25	0402
RL0402E005M500K	5	1	5	50	25	0402
RL0402E008M015K	8	1	0.15	250	50	0402
RL0402E008M100K	8	1	1	200	50	0402
RL0402E008M200K	8	1	2	50	25	0402
RL0402E008M300K	8	1	3	50	25	0402
RL0402E008M500K	8	1	5	50	25	0402
RL0402E012M015K	12	1	0.15	200	50	0402
RL0402E012M100K	12	1	1	200	50	0402
RL0402E012M200K	12	1	2	50	25	0402
RL0402E012M300K	12	1	3	50	25	0402
RL0402E012M500K	12	1	5	50	25	0402
RL0402E018M015K	18	1	0.15	250	50	0402
RL0402E018M100K	18	1	1	200	50	0402
RL0402E018M200K	18	1	2	125	50	0402
RL0402E018M300K	18	10	3	500	50	0402
RL0402E018M500K	18	10	5	500	50	0402
RL0402E024M015K	24	10	0.15	500	50	0402
RL0402E024M100K	24	10	1	500	50	0402
RL0402E024M200K	24	10	2	500	50	0402
RL0402E024M300K	24	10	3	500	50	0402
RL0402E024M500K	24	10	5	500	50	0402

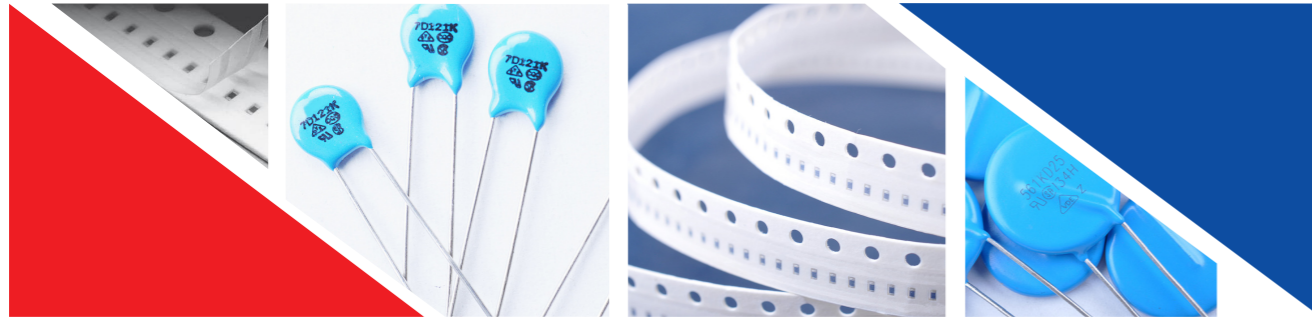
Part Number	Max Operating Voltage Vdc	Max Leakage Current	Capacitance @1Mhz	Trigger Voltage	Clamping Voltage (8/20μs)	Package
	V	μA	pF	V	V	
RL0402E005M181K	5	1	18	10-14	18	0402
RL0402E005M301K	5	1	30	10-14	18	0402
RL0402E005M401K	5	1	40	10-14	18	0402
RL0402E005M501K	5	1	50	10-14	18	0402
RL0402E005M701K	5	1	70	10-14	18	0402
RL0402E005M801K	5	1	80	10-14	18	0402
RL0402E009M301K	9	1	30	11-16	20	0402
RL0402E009M401K	9	1	40	11-16	20	0402
RL0402E009M501K	9	1	50	11-16	20	0402
RL0402E009M801K	9	1	80	11-16	20	0402
RL0402E014M301K	14	1	30	16-22	30	0402
RL0402E014M401K	14	1	40	16-22	30	0402
RL0402E014M501K	14	1	50	16-22	30	0402
RL0402E014M801K	14	1	80	16-22	30	0402
RL0402E018M151K	18	1	15	22-28	40	0402
RL0402E018M181K	18	1	18	22-28	40	0402
RL0402E018M301K	18	1	30	22-28	40	0402
RL0402E018M501K	18	1	50	22-28	40	0402
RL0402E018M801K	18	1	80	22-28	40	0402
RL0402E022M151K	22	1	15	26-34	45	0402
RL0402E022M181K	22	1	18	26-34	45	0402
RL0402E022M301K	22	1	30	26-34	45	0402
RL0402E022M501K	22	1	50	26-34	45	0402
RL0402E026M181K	26	1	18	31-38	58	0402
RL0402E026M301K	26	1	30	31-38	58	0402



Part Number	Max Operating Voltage Vdc	Max Leakage Current	Capacitance @1Mhz	Trigger Voltage	Clamping Voltage (8/20μs)	Package
	V	μA	pF	V	V	
RL0603E005M005K	5	0.001	0.05	450	50	0603
RL0603E005M015K	5	0.05	0.15	250	50	0603
RL0603E005M100K	5	1	1	100	50	0603
RL0603E005M200K	5	1	2	50	25	0603
RL0603E005M300K	5	1	3	50	25	0603
RL0603E005M500K	5	1	5	50	25	0603
RL0603E008M015K	8	1	0.15	250	50	0603
RL0603E008M100K	8	1	1	200	50	0603
RL0603E008M200K	8	1	2	50	25	0603
RL0603E008M300K	8	1	3	50	25	0603
RL0603E008M500K	8	1	5	50	25	0603
RL0603E012M015K	12	1	0.15	200	50	0603
RL0603E012M100K	12	1	1	200	50	0603
RL0603E012M200K	12	1	2	50	25	0603
RL0603E012M300K	12	1	3	50	25	0603
RL0603E012M500K	12	1	5	50	25	0603
RL0603E018M015K	18	1	0.15	250	50	0603
RL0603E018M100K	18	1	1	200	50	0603
RL0603E018M200K	18	1	2	125	50	0603
RL0603E018M300K	18	10	3	500	50	0603
RL0603E018M500K	18	10	5	500	50	0603
RL0603E024M015K	24	10	0.15	500	50	0603
RL0603E024M100K	24	10	1	500	50	0603
RL0603E024M200K	24	10	2	500	50	0603
RL0603E024M300K	24	10	3	500	50	0603
RL0603E024M500K	24	10	5	500	50	0603
RL0603E005M181K	5	1	18	10-14	18	0603
RL0603E005M301K	5	1	30	10-14	18	0603
RL0603E005M501K	5	1	50	10-14	18	0603
RL0603E005M801K	5	1	80	10-14	18	0603
RL0603E005M102K	5	1	100	10-14	18	0603
RL0603E009M181K	9	1	18	11-16	20	0603
RL0603E009M301K	9	1	30	11-16	20	0603
RL0603E009M501K	9	1	50	11-16	20	0603
RL0603E009M801K	9	1	80	11-16	20	0603
RL0603E009M102K	9	1	100	11-16	20	0603
RL0603E014M181K	14	1	18	16-22	30	0603
RL0603E014M301K	14	1	30	16-22	30	0603
RL0603E014M501K	14	1	50	16-22	30	0603
RL0603E014M801K	14	1	80	16-22	30	0603
RL0603E014M102K	14	1	100	16-22	30	0603
RL0603E018M181K	18	1	18	22-28	40	0603

Part Number	Max Operating Voltage Vdc	Max Leakage Current	Capacitance @1Mhz	Trigger Voltage	Clamping Voltage (8/20μs)	Package
	V	μA	pF	V	V	
RL0603E018M301K	18	1	30	22-28	40	0603
RL0603E018M501K	18	1	50	22-28	40	0603
RL0603E018M801K	18	1	80	22-28	40	0603
RL0603E018M102K	18	1	100	22-28	40	0603
RL0603E022M181K	22	1	18	26-34	45	0603
RL0603E022M301K	22	1	30	26-34	45	0603
RL0603E022M501K	22	1	50	26-34	45	0603
RL0603E022M801K	22	1	80	26-34	45	0603
RL0603E022M102K	22	1	100	26-34	45	0603
RL0603E005M122K	5	1	120	10-14	18	0603
RL0603E005M142K	5	1	140	10-14	18	0603
RL0603E005M232K	5	1	230	10-14	18	0603
RL0603E005M362K	5	1	360	10-14	18	0603
RL0603E009M122K	9	1	120	11-16	20	0603
RL0603E009M142K	9	1	140	11-16	20	0603
RL0603E009M202K	9	1	200	11-16	20	0603
RL0603E009M232K	9	1	230	11-16	20	0603
RL0603E009M362K	9	1	360	11-16	20	0603
RL0603E014M122K	14	1	120	16-22	30	0603
RL0603E014M142K	14	1	140	16-22	30	0603
RL0603E014M252K	14	1	250	16-22	30	0603
RL0603E014M362K	14	1	360	16-22	30	0603
RL0603E018M122K	18	1	120	22-28	40	0603
RL0603E018M142K	18	1	140	22-28	40	0603
RL0603E018M232K	18	1	230	22-28	40	0603
RL0603E018M362K	18	1	360	22-28	40	0603
RL0603E022M122K	22	1	120	26-34	45	0603
RL0603E022M142K	22	1	140	26-34	45	0603
RL0603E022M162K	22	1	160	26-34	45	0603
RL0603E022M232K	22	1	230	26-34	45	0603
RL0603E026M122K	26	1	120	31-38	58	0603
RL0603E026M162K	26	1	160	31-38	58	0603
RL0603E030M162K	30	1	120	47-46	65	0603
RL0603E030M232K	30	1	140	47-46	65	0603





产品特点 Features

<p>快速反应时间 Fast response time.</p>	<p>非线性，浪涌吸收能力强 High surge capability.</p>
<p>电压范围18 ~ 1800V Voltage range from 18V to 1800V.</p>	<p>耐电流可达 70KA Surge current up to 70 KA.</p>
<p>广泛的应用 Wide range of applications.</p>	

应用范围 Application

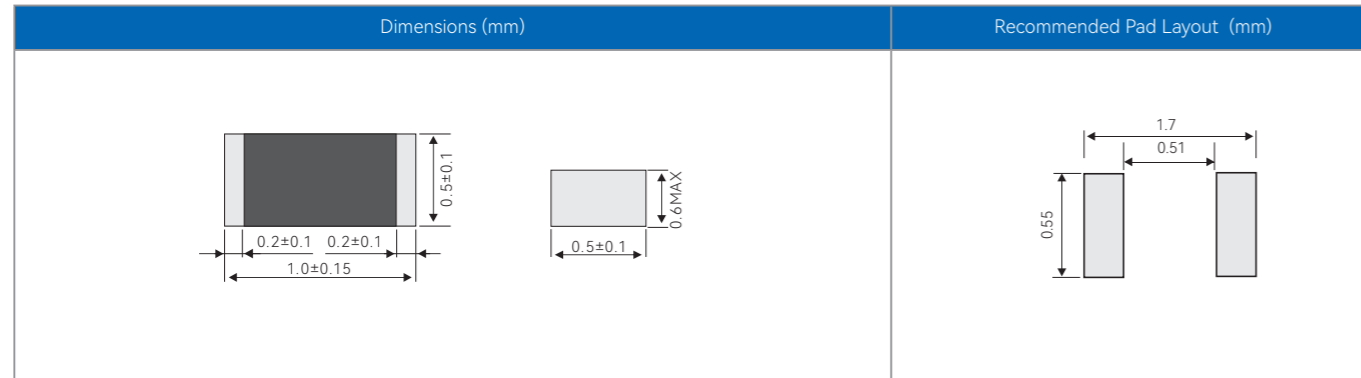
<p>电源系统 Power Supply System</p>	<p>安全和消防 警报系统 Safety and Fire Alarm System</p>	<p>汽车电子 系统 Automotive Electronic System</p>	<p>工程和 工业控制 Programming Control</p>	<p>通讯设备 Communications Equipment</p>
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压敏电阻 Metal Oxide Varistors (MOV)

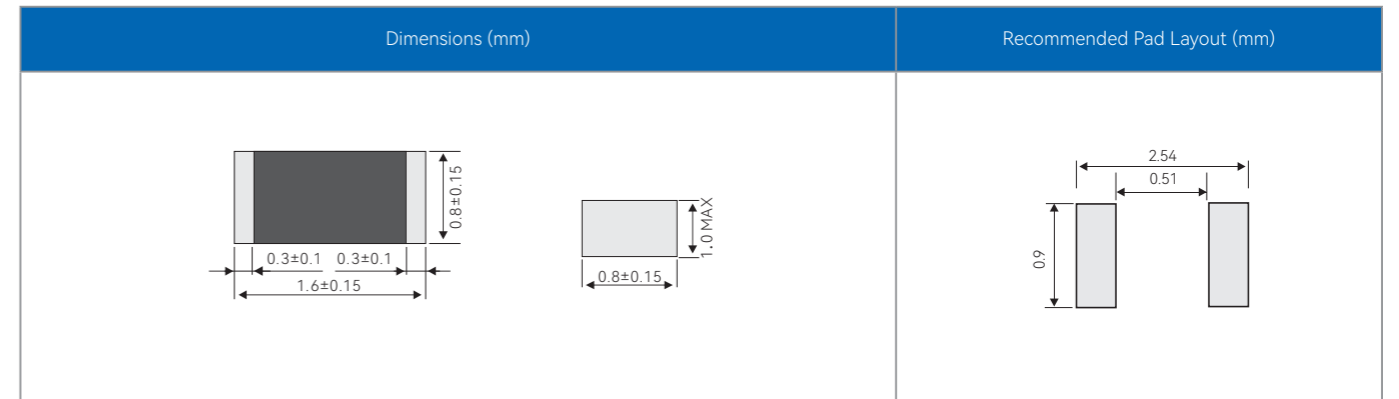
RL0402 Series	5V-24V	8/20μS	10A	111
RL0603 Series	5V-42V	8/20μS	20-30A	112
RL0805 Series	5V-430V	8/20μS	30-50A	113
RL1206 Series	5V-470V	8/20μS	80-100A	114
RL1210 Series	18V-470V	8/20μS	250A	115
RL1812 Series	24V-470V	8/20μS	400-800A	116
RL2220 Series	24V-470V	8/20μS	500-1200A	117
RL3220 Series	27V-470V	8/20μS	800-1250A	118
RL3225 Series	270V-560V	8/20μS	200-1200A	119
RL4032 Series	270V-560V	8/20μS	2500A	120
RL05D Series	18V-750V	8/20μS	100~400A	121
RL07D Series	18V-820V	8/20μS	250~1200A	122
RL07DJ Series	82V-820V	8/20μS	1750A	123
RL10D Series	18V-1800V	8/20μS	500~2500A	124
RL10DJ Series	82V-1800V	8/20μS	3500A	125
RL14D Series	18V-1800V	8/20μS	1000~4500A	126
RL14DJ Series	82V-1800V	8/20μS	6000A	127
RL20D Series	18V-1800V	8/20μS	2000~6500A	128
RL20DJ Series	82V-1800V	8/20μS	10000A	129
RL25D Series	82V-1200V	8/20μS	18000A	130
RL32D Series	200V-1200V	8/20μS	30000A	131
RL34S Series	47V-1800V	8/20μS	20000~50000A	132
RL40D Series	240V-1600V	8/20μS	40000A	133
RL53D Series	240V-1600V	8/20μS	60000~70000A	134

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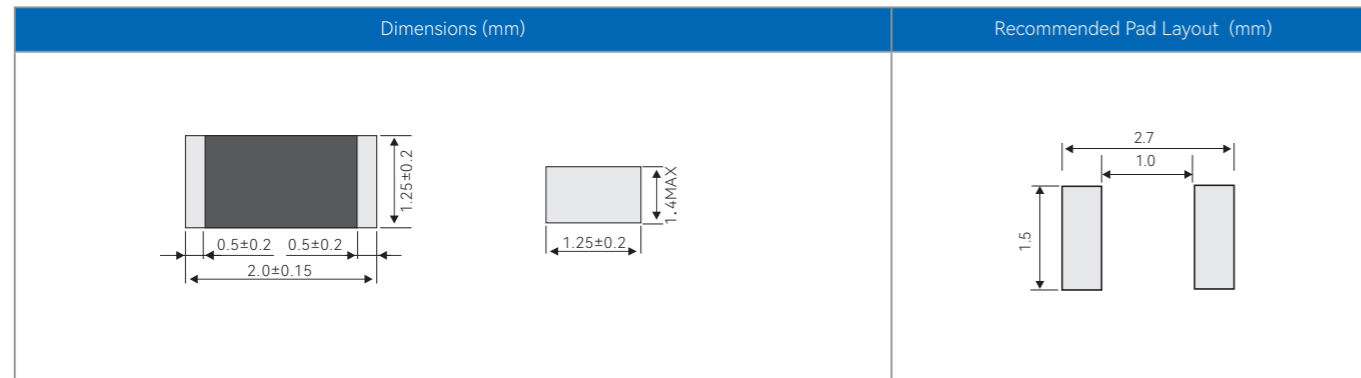
Type Number	Varistor Voltage	Maximum Allowable Voltage		Maximum Energy (10/1000 μ s)	Maximum Clamping Voltage		Withstanding Surge Current (8/20 μ s)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _P (A)	V _C (V)	I(A)
0402 Series Metal Oxide Varistors							
RL0402A5R0K	4-6	2	3.3	0.05	1	12	10
RL0402A8R0K	6.7-10.1	4	5.6	0.05	1	15.5	10
RL0402A120K	10.8-16.2	6	9	0.05	1	24	10
RL0402A180K	16.8-21	11	14	0.05	1	30	10
RL0402A210K	18-22.5	12	15	0.05	1	35	10
RL0402A240K	21.6-27	14	18	0.05	1	40	10



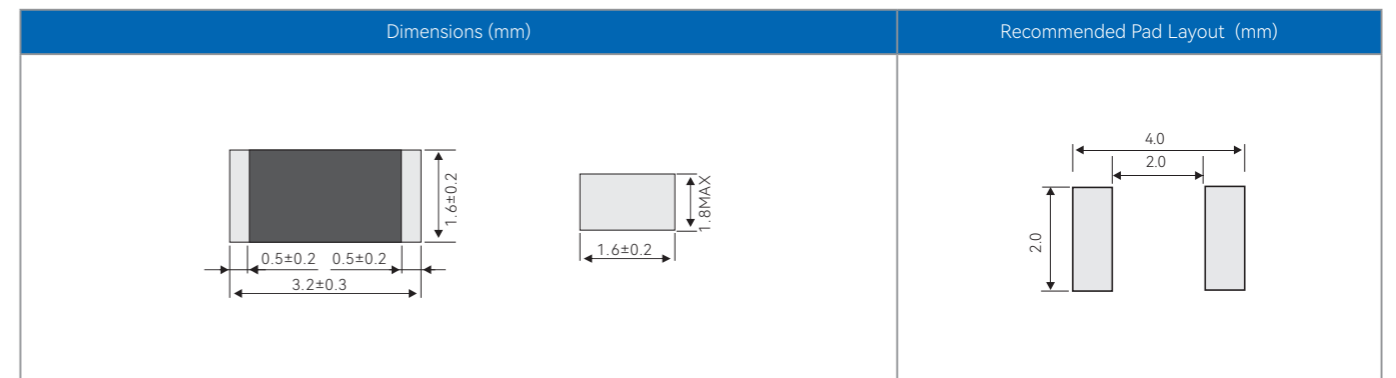
Type Number	Varistor Voltage	Maximum Allowable Voltage		Maximum Energy (10/1000 μ s)	Maximum Clamping Voltage (8/20 μ s)		Withstanding Surge Current (8/20 μ s)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _P (A)	V _C (V)	I(A)
0603 Series Metal Oxide Varistors							
RL0603A5R0K	4-6	2	3.3	0.1	1	13.2	20
RL0603A8R0K	6-10	4	5.6	0.1	1	22.2	20
RL0603A120K	11-16	6	9	0.1	1	35.6	20
RL0603A180K	17-21	11	14	0.1	1	46.0	30
RL0603A210K	19-24	12	16	0.1	1	52.0	30
RL0603A240K	21-27	14	18	0.1	1	59.0	30
RL0603A270K	26-33	17	22	0.1	1	72.0	30
RL0603A300K	29-36	18	24	0.1	1	79.0	30
RL0603A330K	31-39	20	26	0.1	1	85.0	30
RL0603A360K	33-42	21	28	0.3	1	78.0	30
RL0603A390K	36-45	25	30	0.3	1	99.0	30
RL0603A420K	39-49	28	33	0.3	1	108.0	30



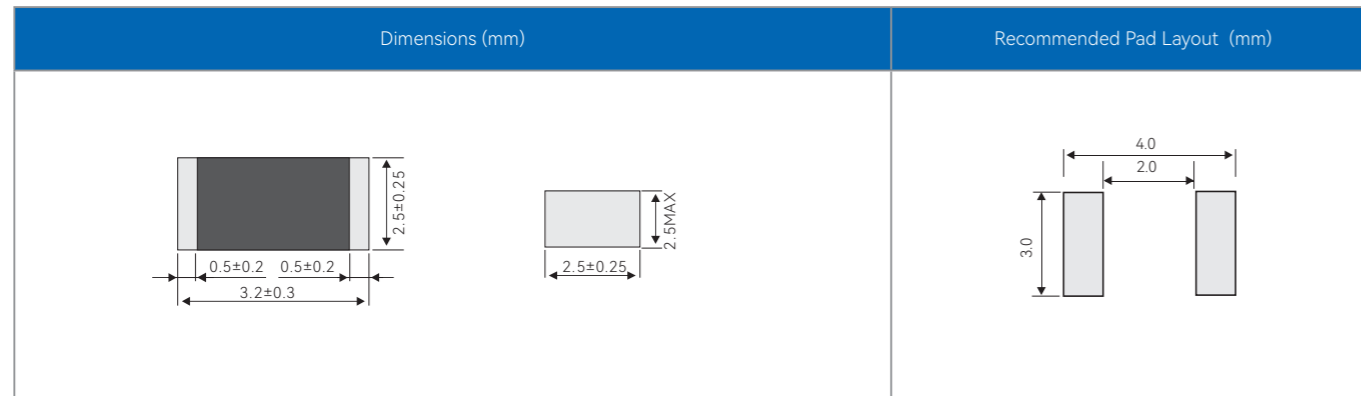
Type Number	Varistor Voltage	Maximum Allowable Voltage		Maximum Energy (10/1000 μ s)	Maximum Clamping Voltage(8/20 μ s)		Withstanding Surge Current (8/20 μ s)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)
0805 Series Metal Oxide Varistors							
RL0805A5R0K	4-6	2	3.3	0.2	2	12	50
RL0805A8R0K	6-10	4	5.6	0.2	2	22.2	50
RL0805A120K	11-16	6	9	0.2	2	35.6	50
RL0805A180K	17-21	11	14	0.2	2	46	50
RL0805A240K	21-27	14	18	0.2	2	59	50
RL0805A270K	26-33	17	22	0.2	2	72.6	50
RL0805A300K	29-36	18	24	0.2	2	79	50
RL0805A360K	33-42	21	28	0.2	2	92	50
RL0805A390K	36-45	25	30	0.2	2	99	50
RL0805A420K	39-49	28	33	0.2	2	108	50
RL0805A470K	45-57	30	38	0.2	2	125	50
RL0805A530K	50-63	32	42	0.2	2	138	50
RL0805A600K	57-72	37	48	0.2	2	158	50
RL0805A680K	67-84	40	56	0.2	2	184	50
RL0805A760K	72-90	43	60	0.2	5	198	50
RL0805A241K	216-264	150	200	0.2	5	415	30
RL0805A271K	243-297	175	225	0.2	5	475	30
RL0805A391K	351-429	250	320	0.2	5	650	30
RL0805A431K	387-473	275	350	0.2	5	710	30



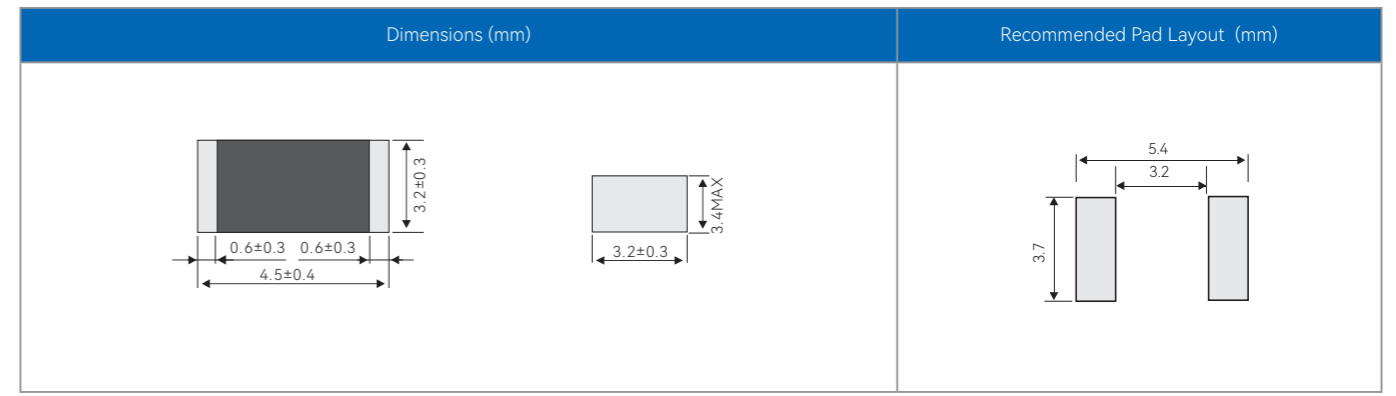
Type Number	Varistor Voltage	Maximum Allowable Voltage		Maximum Energy (10/1000 μ s)	Maximum Clamping Voltage(8/20 μ s)		Withstanding Surge Current (8/20 μ s)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)
1206 Series Metal Oxide Varistors							
RL1206A5R0K	4-6	2	3.3	0.5	5	13.2	100
RL1206A8R0K	6-10	4	5.6	0.5	5	22	100
RL1206A120K	11-16	6	9	0.5	5	35	100
RL1206A180K	17-21	11	14	0.5	5	46	100
RL1206A240K	21-27	14	18	0.5	5	59	100
RL1206A270K	26-33	17	22	0.5	5	72	100
RL1206A300K	29-36	18	24	0.5	5	79	100
RL1206A330K	31-39	20	26	0.5	5	85	100
RL1206A360K	33-42	21	28	0.5	5	92	100
RL1206A390K	36-45	25	30	0.5	5	99	100
RL1206A420K	39-49	28	33	0.5	5	108	100
RL1206A470K	45-57	30	38	0.5	5	125	100
RL1206A530K	50-63	32	42	0.5	5	138	100
RL1206A560K	54-67	35	45	0.5	5	148	100
RL1206A600K	57-72	37	48	0.5	5	158	100
RL1206A680K	67-84	40	56	0.5	5	184	100
RL1206A760K	72-90	43	60	0.5	5	198	100
RL1206A820K	78-97	47	65	0.5	5	214	100
RL1206A900K	81.6-102	49	68	0.5	5	224	100
RL1206A950K	90-112	50	75	0.5	5	247	100
RL1206A101K	102-127	60	85	0.5	5	280	100
RL1206A121K	120-150	67	100	0.5	5	330	100
RL1206A151K	135-165	75	110	0.5	5	360	100
RL1206A201K	180-220	115	150	0.5	5	395	100
RL1206A241K	216-264	150	200	0.5	5	415	80
RL1206A271K	243-297	175	225	0.5	5	475	80
RL1206A391K	351-429	250	320	0.5	5	650	100
RL1206A431K	387-473	275	350	0.5	5	710	100
RL1206A471K	423-517	300	385	0.5	5	775	100



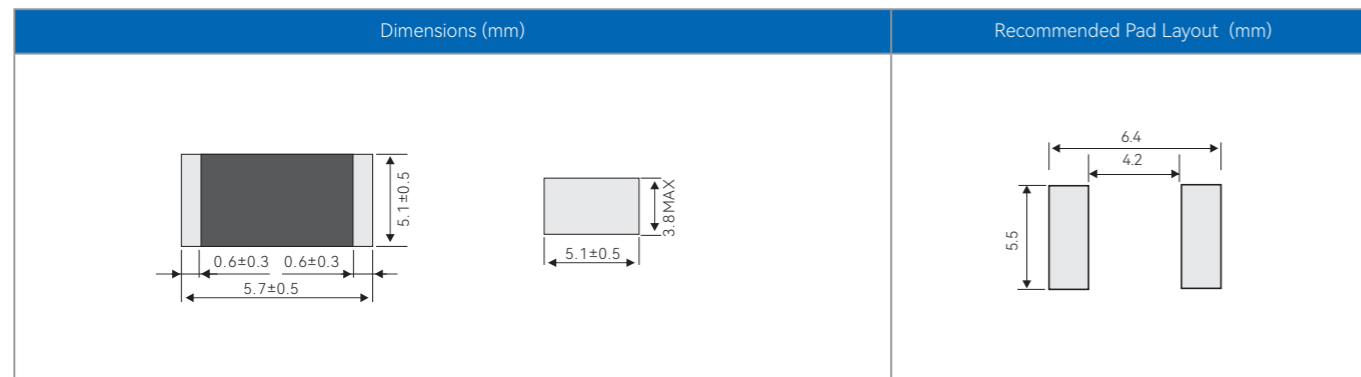
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs)	Maximum Clamping Voltage		Withstanding Surge Current (8/20μs)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)	
1210 Series Metal Oxide Varistors								
RL1210A180K	16-21	11	14	0.8	5	46	250	
RL1210A210K	19-24	13	16	0.8	5	52	250	
RL1210A240K	21-27	14	18	0.8	5	59	250	
RL1210A270K	26-33	17	22	0.8	5	72	250	
RL1210A300K	29-36	18	24	0.8	5	79	250	
RL1210A330K	31-39	20	26	0.8	5	85	250	
RL1210A360K	33-39	21	28	0.8	5	92	250	
RL1210A390K	36-45	25	30	0.8	5	99	250	
RL1210A420K	39-49	28	33	0.8	5	108	250	
RL1210A470K	45-57	30	38	0.8	5	125	250	
RL1210A530K	50-63	32	42	0.8	5	138	250	
RL1210A560K	54-67	35	45	0.8	5	148	250	
RL1210A600K	57-72	36	48	0.8	5	158	250	
RL1210A680K	67-84	40	56	0.8	5	184	250	
RL1210A760K	72-90	43	60	0.8	5	198	250	
RL1210A820K	78-97	47	65	0.8	5	214	250	
RL1210A950K	90-112	50	75	0.8	5	247	250	
RL1210A101K	102-127	60	85	0.8	5	280	250	
RL1210A241K	216-264	150	200	0.8	5	415	250	
RL1210A271K	243-297	175	225	0.8	5	475	250	
RL1210A391K	351-429	250	320	0.8	5	675	250	
RL1210A431K	387-473	275	350	0.8	5	710	250	
RL1210A471K	423-517	300	385	0.8	5	775	250	
RL1210A511K	459-561	320	415	1.2	5	850	250	



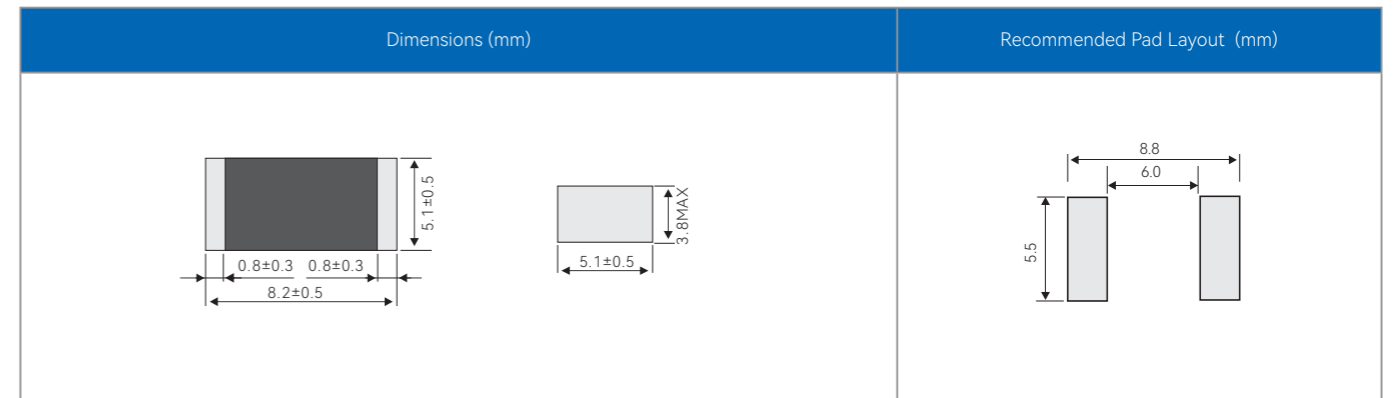
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs)	Maximum Clamping Voltage		Withstanding Surge Current (8/20μs)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)	
1812 Series Metal Oxide Varistors								
RL1812A240K	21-27	14	18	1.5	10	59	500	
RL1812A270K	26-33	17	22	1.5	10	72	800	
RL1812A300K	29-36	18	24	1.5	10	79	800	
RL1812A330K	31-39	19	26	1.5	10	85	800	
RL1812A360K	33-42	21	28	1.5	10	92	800	
RL1812A390K	36-45	25	30	1.5	10	99	800	
RL1812A470K	45-57	30	38	1.5	10	125	800	
RL1812A530K	50-63	32	42	1.5	10	138	800	
RL1812A560K	54-67	35	45	1.5	10	148	800	
RL1812A600K	57-72	37	48	1.5	10	158	800	
RL1812A680K	67-84	40	56	1.5	10	184	800	
RL1812A760K	72-90	43	60	1.5	10	198	800	
RL1812A820K	78-97	46	65	1.5	10	214	800	
RL1812A900K	81-102	49	68	1.5	10	224	800	
RL1812A950K	90-112	54	75	1.5	10	247	800	
RL1812A101K	102-127	60	85	1.5	10	280	800	
RL1812A121K	108-132	65	90	1.5	10	290	800	
RL1812A151K	135-165	75	110	1.5	10	340	500	
RL1812A181K	162-198	115	150	2.3	10	360	400	
RL1812A241K	216-264	150	200	2.3	10	415	400	
RL1812A271K	243-297	175	225	2.3	10	475	400	
RL1812A391K	351-429	250	320	2.3	10	650	400	
RL1812A431K	387-473	275	350	2.3	10	710	400	
RL1812A471K	423-517	300	385	2.3	10	775	400	



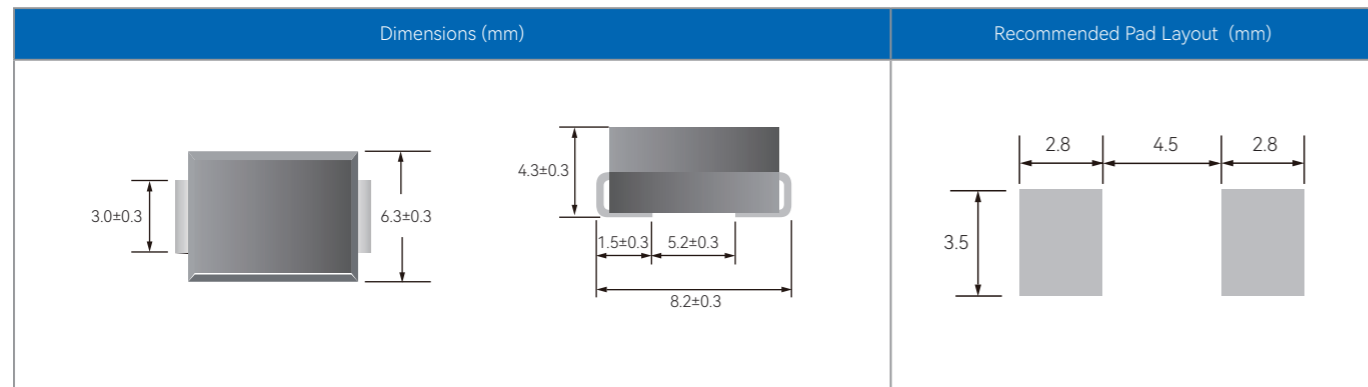
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage(8/20μs)		Withstanding Surge Current (8/20μs) (A)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	V _C (V)		I _p (A)	I(A)	
2220 Series Metal Oxide Varistors								
RL2220A240K	21-27	14	18	2.5	10	59	1200	
RL2220A270K	26-33	17	22	2.5	10	72	1200	
RL2220A300K	29-36	18	24	2.5	10	79	1200	
RL2220A330K	31-39	20	26	2.5	10	85	1200	
RL2220A390K	36-45	25	30	2.5	10	99	1200	
RL2220A470K	45-57	30	38	2.5	10	125	1200	
RL2220A530K	50-63	32	42	2.5	10	138	1200	
RL2220A560K	54-67	35	45	2.5	10	148	1200	
RL2220A680K	67-84	40	56	2.5	10	184	1200	
RL2220A760K	72-90	43	60	2.5	10	198	1200	
RL2220A820K	78-97	46	65	2.5	10	214	1200	
RL2220A900K	81-102	49	68	2.5	10	224	1200	
RL2220A101K	102-127	60	85	2.5	10	280	1200	
RL2220A181K	161-198	115	120	5.6	10	315	500	
RL2220A221K	198-242	140	180	5.6	10	355	500	
RL2220A241K	216-264	150	200	5.6	10	415	500	
RL2220A271K	243-297	175	225	5.6	10	475	500	
RL2220A391K	351-429	250	320	8.5	10	650	500	
RL2220A431K	387-473	275	350	8.5	10	710	500	
RL2220A471K	423-517	300	385	8.5	10	775	500	
RL2220A561K	504-616	350	455	10.0	10	925	500	



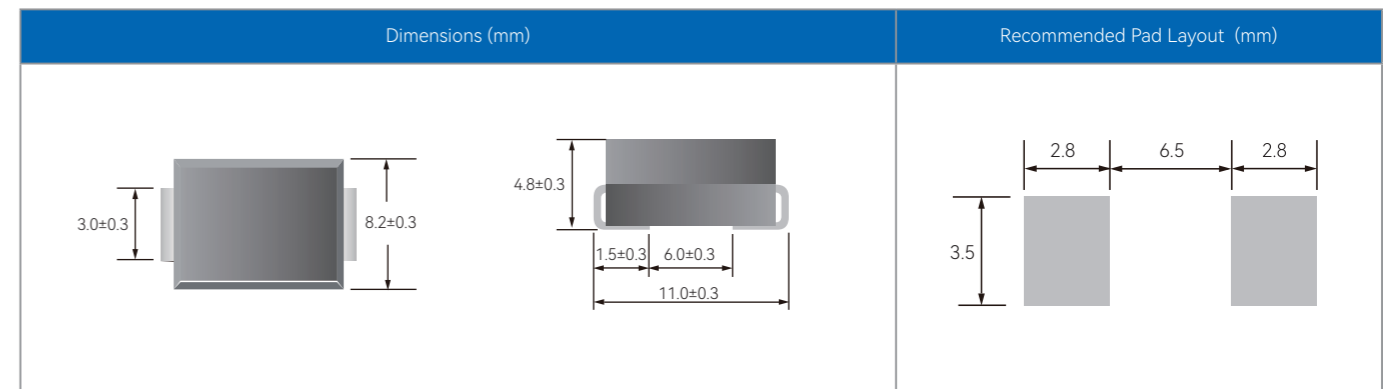
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage		Withstanding Surge Current (8/20μs) (A)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	V _C (V)		I _p (A)	I(A)	
3220 Series Metal Oxide Varistors								
RL3220A390K	36-45	25	30	3.6	10	99	1500	
RL3220A121K	108-132	65	90	3.5	10	290	1500	
RL3220A181K	162-198	115	150	10	10	315	1250	
RL3220A241K	216-264	150	200	10	10	415	1250	
RL3220A271K	243-297	175	225	10	10	475	1250	
RL3220A391K	351-429	250	320	10	10	675	1250	
RL3220A431K	387-473	275	350	10	10	710	1250	
RL3220A471K	423-517	300	385	10	10	775	1250	



Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (2ms) (J)	Max. Energy (10/1000μs)		Withstanding Surge Current (8/20μs) (A) @1 Time	8/20μs & 1.2/50μs @Ri 2 Ω		Maximum DC Leakage Current (μA)	C _{typ} (1 kHz, 1 V) (pF)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	I _p (A)		V _c (V)	KV		Times			
RL3225A Series												
RL3225A271K	243~297	175	225	15.0	10	455	1200	2	40	20	150	
RL3225A431K	387~473	275	350	23.0	10	710	1200	2	40	20	95	
RL3225A471K	423~517	300	385	24.7	10	775	1200	2	40	20	90	
RL3225A511K	459~561	320	410	25.0	10	845	1200	2	40	20	85	
RL3225A561K	504~616	350	450	26.0	10	920	1200	2	40	20	80	

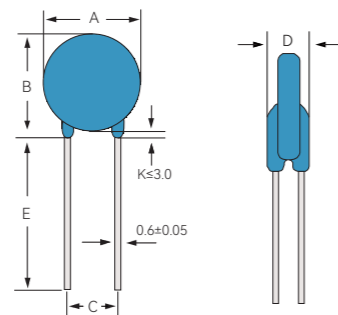


Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs) (J)	Max. Clamping Voltage(8/20μs)		Withstanding Surge Current (8/20μs) (A) @1 Time	8/20μs & 1.2/50μs @Ri 2 Ω		Maximum DC Leakage Current (μA)	C _{typ} (1 kHz, 1 V) (pF)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	I _p (A)		V _c (V)	KV		Times			
RL4032A Series												
RL4032A201K	180~220	130	170	25	25	340	2500	4	40	20	500	
RL4032A221K	198~242	140	180	27	25	360	2500	4	40	20	450	
RL4032A241K	216~264	150	200	30	25	395	2500	4	40	20	420	
RL4032A271K	243~297	175	225	35	25	455	2500	4	40	20	370	
RL4032A301K	270~330	195	250	40	25	500	2500	4	40	20	330	
RL4032A331K	297~363	210	275	42	25	550	2500	4	40	20	300	
RL4032A361K	324~396	230	300	45	25	595	2500	4	40	20	280	
RL4032A391K	351~429	250	320	50	25	650	2500	4	40	20	260	
RL4032A431K	387~473	275	350	55	25	710	2500	4	40	20	230	
RL4032A471K	423~517	300	385	60	25	775	2500	4	40	20	210	
RL4032A511K	459~561	320	410	67	25	845	2500	4	40	20	200	
RL4032A561K	504~616	350	450	69	25	930	2500	4	40	20	180	
RL4032A621K	558~682	395	510	70	25	1020	2500	4	40	20	160	
RL4032A681K	612~748	420	560	72	25	1120	2500	4	40	20	150	



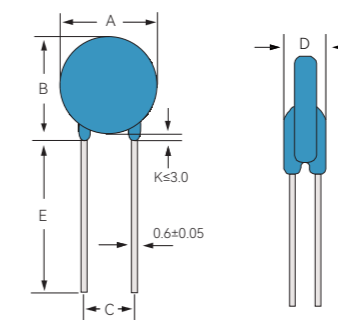
Type Number	Varistor Voltage			Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage (8/20μs)		Withstanding Surge Current (8/20μs) (A)	Rated Power (W)	Typical Capacitance (Reference) @1kHz(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)		I _p (A)	V _C (V)				A _{max}	B _{max}	C _{±0.8}	D _{max}	E _{min}
05D Series Metal Oxide Varistors														
05D180K	15-22	11	14	0.5	1	40	100	0.01	2400	7.0	10.0	5	3.8	15
05D220K	20-26	14	18	0.7	1	48	100	0.01	1800	7.0	10.0	5	3.8	15
05D270K	24-31	17	22	0.8	1	60	100	0.01	1500	7.0	10.0	5	3.8	15
05D330K	30-38	20	26	1.0	1	73	100	0.01	1200	7.0	10.0	5	3.8	15
05D390K	35-45	25	31	1.2	1	80	100	0.01	1000	7.0	10.0	5	3.8	15
05D470K	43-53	30	38	1.5	1	104	100	0.01	850	7.0	10.0	5	4.3	15
05D560K	51-63	35	45	1.8	1	123	100	0.01	700	7.0	10.0	5	4.3	15
05D680K	62-76	40	56	2.1	1	145	100	0.01	560	7.0	10.0	5	4.3	15
05D820K	74-90	50	65	2.5	5	150	400	0.1	480	7.0	10.0	5	3.8	15
05D101K	90-110	60	85	3.2	5	175	400	0.1	420	7.0	10.0	5	3.8	15
05D121K	108-132	75	100	4.0	5	210	400	0.1	360	7.0	10.0	5	3.8	15
05D151K	135-165	95	125	4.8	5	260	400	0.1	280	7.0	10.0	5	3.8	15
05D181K	162-198	115	150	5.9	5	320	400	0.1	200	7.0	10.0	5	4.2	15
05D201K	180-220	130	170	6.5	5	255	400	0.1	160	7.0	10.0	5	4.2	15
05D221K	198-242	140	180	7.0	5	380	400	0.1	110	7.0	10.0	5	4.2	15
05D241K	216-264	150	200	8.0	5	415	400	0.1	85	7.0	10.0	5	4.2	15
05D271K	243-297	175	225	8.5	5	475	400	0.1	75	7.0	10.0	5	4.2	15
05D301K	270-330	195	250	8.5	5	525	400	0.1	75	7.0	10.0	5	4.2	15
05D331K	297-363	210	275	9.2	5	575	400	0.1	75	7.0	10.0	5	4.8	15
05D361K	324-396	230	300	10	5	620	400	0.1	70	7.0	10.0	5	4.8	15
05D391K	351-429	250	320	12	5	675	400	0.1	70	7.0	10.0	5	4.8	15
05D431K	387-473	275	350	13	5	745	400	0.1	65	7.0	10.0	5	5.6	15
05D471K	423-517	300	385	15	5	810	400	0.1	55	7.0	10.0	5	5.6	15
05D511K	459-561	320	418	16	5	882	400	0.1	55	7.0	10.0	5	5.6	15
05D561K	504-616	350	460	18	5	968	400	0.1	50	7.0	10.0	5	5.6	15
05D621K	558-682	385	505	18	5	1072	400	0.1	45	7.0	10.0	5	6.4	15
05D681K	612-748	420	560	18	5	1176	400	0.1	40	7.0	10.0	5	6.4	15
05D751K	675-825	460	615	18	5	1300	400	0.1	35	7.0	10.0	5	6.4	15

Dimensions (mm)



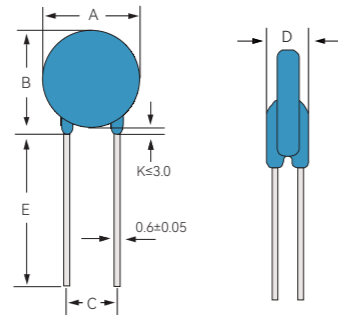
Type Number	Varistor Voltage			Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage (8/20μs)		Withstanding Surge Current (8/20μs) (A)	Rated Power (W)	Typical Capacitance (Reference) @1kHz(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)		I _p (A)	V _C (V)				A _{max}	B _{max}	C _{±0.8}	D _{max}	E _{min}
07D Series Metal Oxide Varistors														
07D180K	15-22	11	14	1.3	2.5	38	250	0.02	3500	9	12	5	3.9	15
07D220K	20-26	14	18	1.7	2.5	43	250	0.02	2800	9	12	5	3.9	15
07D270K	24-31	17	22	2.0	2.5	53	250	0.02	2200	9	12	5	3.9	15
07D330K	30-38	20	26	2.4	2.5	65	250	0.02	1800	9	12	5	3.9	15
07D390K	35-45	25	31	2.8	2.5	77	250	0.02	1450	9	12	5	3.9	15
07D470K	43-53	30	38	3.5	2.5	93	250	0.02	1150	9	12	5	4.4	15
07D560K	51-63	35	45	4.1	2.5	110	250	0.02	1050	9	12	5	4.4	15
07D680K	62-76	40	56	5.0	2.5	135	250	0.02	970	9	12	5	4.4	15
07D820K	74-90	50	65	6.0	10	135	1200	0.25	930	9	12	5	3.9	15
07D101K	90-110	60	85	7.4	10	165	1200	0.25	860	9	12	5	3.9	15
07D121K	108-132	75	100	8.0	10	200	1200	0.25	670	9	12	5	3.9	15
07D151K	135-165	95	125	10	10	250	1200	0.25	490	9	12	5	3.9	15
07D181K	162-198	115	150	12	10	300	1200	0.25	330	9	12	5	4.3	15
07D201K	180-220	130	170	14	10	340	1200	0.25	240	9	12	5	4.3	15
07D221K	198-242	140	180	15	10	360	1200	0.25	190	9	12	5	4.3	15
07D241K	216-264	150	200	16	10	395	1200	0.25	165	9	12	5	4.3	15
07D271K	243-297	175	225	19	10	455	1200	0.25	150	9	12	5	4.3	15
07D301K	270-330	195	250	22	10	505	1200	0.25	135	9	12	5	4.3	15
07D331K	297-363	210	275	24	10	550	1200	0.25	130	9	12	5	4.9	15
07D361K	324-396	230	300	26	10	595	1200	0.25	125	9	12	5	4.9	15
07D391K	351-429	250	320	26	10	650	1200	0.25	105	9	12	5	4.9	15
07D431K	387-473	275	350	29	10	710	1200	0.25	100	9	12	5	5.7	15
07D471K	423-517	300	385	31	10	775	1200	0.25	90	9	12	5	5.7	15
07D511K	459-561	320	418	34	10	842	1200	0.25	80	9	12	5	5.7	15
07D561K	504-616	350	460	34	10	920	1200	0.25	75	9	12	5	5.7	15
07D621K	558-682	385	505	36	10	1025	1200	0.25	70	9	12	5	6.5	15
07D681K	612-748	420	560	36	10	1120	1200	0.25	65	9	12	5	6.5	15
07D751K	675-825	460	615	39	10	1240	1200	0.25	61	9	12	5	6.5	15
07D781K	702-858	485	640	41	10	1290	1200	0.25	54	9	12	5	6.5	15
07D821K	738-902	510	670	43	10	1355	1200	0.25	48	9	12	5	6.8	15

Dimensions (mm)



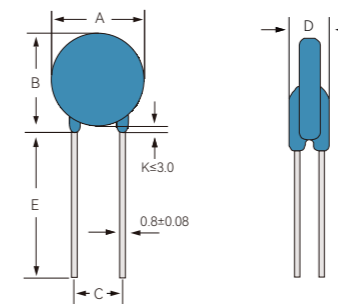
Type Number	Varistor Voltage			Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage (8/20μs)		Withstanding Surge Current (8/20μs) I(A)	Rated Power (W)	Typical Capacitance (Reference) @1kHz(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)		I _p (A)	V _C (V)				A max	B max	C ±0.8	D max	E min
07DJ Series Metal Oxide Varistors														
07D820KJ	74-90	50	65	8.4	10	135	1750	0.25	930	9	12	5	3.9	15
07D101KJ	90-110	60	85	10	10	165	1750	0.25	860	9	12	5	3.9	15
07D121KJ	108-132	75	100	12	10	200	1750	0.25	670	9	12	5	3.9	15
07D151K	135-165	95	125	15	10	250	1750	0.25	490	9	12	5	3.9	15
07D181KJ	162-198	115	150	19	10	300	1750	0.25	330	9	12	5	4.3	15
07D201KJ	180-220	130	170	21	10	340	1750	0.25	240	9	12	5	4.3	15
07D221K	198-242	140	180	23	10	360	1750	0.25	190	9	12	5	4.3	15
07D241KJ	216-264	150	200	25	10	395	1750	0.25	165	9	12	5	4.3	15
07D271KJ	243-297	175	225	28	10	455	1750	0.25	150	9	12	5	4.3	15
07D301KJ	270-330	195	250	32	10	505	1750	0.25	135	9	12	5	4.3	15
07D331KJ	297-363	210	275	34	10	550	1750	0.25	130	9	12	5	4.9	15
07D361KJ	324-396	230	300	37	10	595	1750	0.25	125	9	12	5	4.9	15
07D391KJ	351-429	250	320	40	10	650	1750	0.25	105	9	12	5	4.9	15
07D431KJ	387-473	275	350	46	10	710	1750	0.25	100	9	12	5	5.7	15
07D471KJ	423-517	300	385	49	10	775	1750	0.25	90	9	12	5	5.7	15
07D511KJ	459-561	320	418	54	10	842	1750	0.25	80	9	12	5	5.7	15
07D561KJ	504-616	350	460	55	10	920	1750	0.25	75	9	12	5	5.7	15
07D621KJ	558-682	385	505	59	10	1025	1750	0.25	70	9	12	5	6.5	15
07D681KJ	612-748	420	560	62	10	1120	1750	0.25	65	9	12	5	6.5	15
07D751KJ	675-825	460	615	66	10	1240	1750	0.25	61	9	12	5	6.5	15
07D781KJ	702-858	485	640	68	10	1290	1750	0.25	54	9	12	5	6.5	15
07D821KJ	738-902	510	670	71	10	1355	1750	0.25	48	9	12	5	6.8	15

Dimensions (mm)



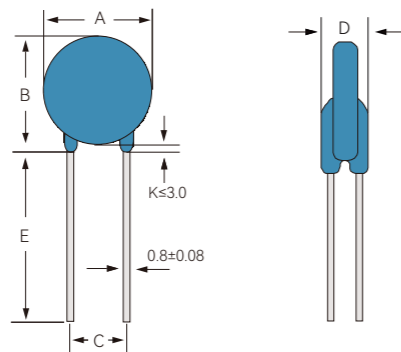
Type Number	Varistor Voltage			Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage (8/20μs)		Withstanding Surge Current (8/20μs) I(A)	Rated Power (W)	Typical Capacitance (Reference) @1kHz(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)		I _p (A)	V _C (V)				A max	B max	C ±0.8	D max	E min
10D Series Metal Oxide Varistors														
10D180K	15-22	11	14	2.8	5	38	500	0.05	7500	12	15	7.5	4.5	15
10D220K	20-26	14	18	3.5	5	43	500	0.05	6000	12	15	7.5	4.5	15
10D270K	24-31	17	22	4.2	5	53	500	0.05	4800	12	15	7.5	4.5	15
10D330K	30-38	20	26	5.2	5	65	500	0.05	4200	12	15	7.5	4.5	15
10D390K	35-45	25	31	6.2	5	77	500	0.05	3700	12	15	7.5	4.5	15
10D470K	43-53	30	38	7.4	5	93	500	0.05	3300	12	15	7.5	5.0	15
10D560K	51-63	35	45	8.8	5	110	500	0.05	2900	12	15	7.5	5.0	15
10D680K	62-76	40	56	11	5	135	500	0.05	2500	12	15	7.5	5.0	15
10D820K	74-90	50	65	13	25	135	2500	0.4	2100	12	15	7.5	4.5	15
10D101K	90-110	60	85	16	25	165	2500	0.4	1700	12	15	7.5	4.5	15
10D121K	108-132	75	100	19	25	200	2500	0.4	1500	12	15	7.5	4.5	15
10D151K	135-165	95	125	24	25	250	2500	0.4	1300	12	15	7.5	4.5	15
10D181K	162-198	115	150	28	25	300	2500	0.4	470	12	15	7.5	5.0	15
10D201K	180-220	130	170	32	25	340	2500	0.4	430	12	15	7.5	5.0	15
10D221K	198-242	140	180	35	25	360	2500	0.4	390	12	15	7.5	5.0	15
10D241K	216-264	150	200	38	25	395	2500	0.4	360	12	15	7.5	5.0	15
10D271K	243-297	175	225	43	25	455	2500	0.4	330	12	15	7.5	5.0	15
10D301K	270-330	195	250	47	25	505	2500	0.4	290	12	15	7.5	5.0	15
10D331K	297-363	210	275	52	25	550	2500	0.4	280	12	15	7.5	5.5	15
10D361K	324-396	230	300	57	25	595	2500	0.4	260	12	15	7.5	5.5	15
10D391K	351-429	250	320	61	25	650	2500	0.4	240	12	15	7.5	6.0	15
10D431K	387-473	275	350	68	25	710	2500	0.4	220	12	15	7.5	6.0	15
10D471K	423-517	300	385	74	25	775	2500	0.4	190	12	15	7.5	6.0	15
10D511K	459-561	320	418	74	25	845	2500	0.4	180	12	15	7.5	6.0	15
10D561K	504-616	350	460	74	25	920	2500	0.4	180	12	15	7.5	6.0	15
10D621K	558-682	385	505	74	25	1025	2500	0.4	160	12	15	7.5	7.0	15
10D681K	612-748	420	560	74	25	1120	2500	0.4	140	12	15	7.5	7.0	15
10D751K	675-825	460	615	75	25	1240	2500	0.4	130	12	15	7.5	7.0	15
10D781K	702-858	485	640	78	25	1290	2500	0.4	130	12	15	7.5	7.0	15
10D821K	738-902	510	670	85	25	1355	2500	0.4	130	12	15	7.5	8.2	15
10D911K	819-1001	550	745	93	25	1500	2500	0.4	120	12	15	7.5	8.2	15
10D951K	855-1045	580	780	97	25	1570	2500	0.4	110	12	15	7.5	8.2	15
10D102K	900-1100	625	825	102	25	1650	2500	0.4	100	12	15	7.5	8.2	15
10D112K	990-1210	680	895	115	25	1815	2500	0.4	90	12	15	7.5	8.2	15
10D122K	1080-1320	750	990	135	25	1980	2500	0.4	85	12	15	7.5	8.2	15
10D152K	1350-1650	900	1220	155	25	2475	2500	0.4	80	12	15	7.5	9.3	15

Dimensions (mm)



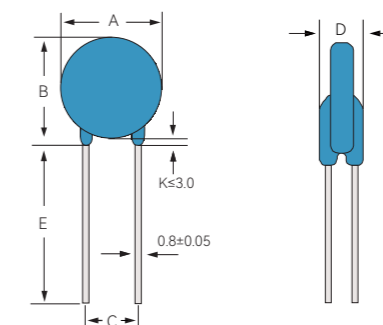
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs)	Maximum Clamping Voltage (8/20μs)	Withstanding Surge Current (8/20μs)	Rated Power	Typical Capacitance (Reference)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)	(W)	@1kHz(pf)	A max	B max	C ±0.8	D max	E min
10DJ Series Metal Oxide Varistors														
10D820KJ	74-92	50	65	18	25	135	3500	0.4	2100	12	15	7.5	4.5	15
10D101KJ	90-110	60	85	22	25	165	3500	0.4	1700	12	15	7.5	4.5	15
10D121KJ	108-132	75	100	27	25	200	3500	0.4	1500	12	15	7.5	4.5	15
10D151KJ	135-165	95	125	34	25	250	3500	0.4	1300	12	15	7.5	4.5	15
10D181KJ	162-198	115	150	47	25	300	3500	0.4	470	12	15	7.5	5.0	15
10D201KJ	180-220	130	170	52	25	340	3500	0.4	430	12	15	7.5	5.0	15
10D221KJ	198-242	140	180	58	25	360	3500	0.4	390	12	15	7.5	5.0	15
10D241KJ	216-264	150	200	64	25	395	3500	0.4	360	12	15	7.5	5.0	15
10D271KJ	243-297	175	225	67	25	455	3500	0.4	330	12	15	7.5	5.0	15
10D301KJ	270-330	195	250	70	25	500	3500	0.4	290	12	15	7.5	5.0	15
10D331KJ	297-363	210	275	72	25	550	3500	0.4	280	12	15	7.5	5.5	15
10D361KJ	324-396	230	300	76	25	595	3500	0.4	260	12	15	7.5	5.5	15
10D391KJ	351-429	250	320	82	25	650	3500	0.4	240	12	15	7.5	6.0	15
10D431KJ	387-473	275	350	93	25	710	3500	0.4	220	12	15	7.5	6.0	15
10D471KJ	423-517	300	385	99	25	775	3500	0.4	190	12	15	7.5	6.0	15
10D511KJ	459-561	320	418	107	25	845	3500	0.4	180	12	15	7.5	6.0	15
10D561KJ	504-616	350	460	112	25	925	3500	0.4	180	12	15	7.5	6.0	15
10D621KJ	558-682	385	505	125	25	1025	3500	0.4	160	12	15	7.5	7.0	15
10D681KJ	612-748	420	560	128	25	1120	3500	0.4	140	12	15	7.5	7.0	15
10D751KJ	675-825	460	615	134	25	1240	3500	0.4	130	12	15	7.5	7.0	15
10D781KJ	702-858	485	640	139	25	1290	3500	0.4	130	12	15	7.5	7.0	15
10D821KJ	738-902	510	670	146	25	1355	3500	0.4	130	12	15	7.5	8.2	15
10D911KJ	819-1001	550	745	152	25	1500	3500	0.4	120	12	15	7.5	8.2	15
10D951KJ	855-1045	580	780	158	25	1570	3500	0.4	110	12	15	7.5	8.2	15
10D102KJ	900-1100	625	825	170	25	1650	3500	0.4	100	12	15	7.5	8.2	15
10D112KJ	990-1210	680	895	180	25	1815	3500	0.4	90	12	15	7.5	8.2	15
10D122KJ	1080-1320	750	990	140	25	1980	3500	0.4	85	12	15	7.5	8.2	15
10D152KJ	1350-1650	900	1220	217	25	2475	3500	0.4	80	12	15	7.5	9.3	15

Dimensions (mm)



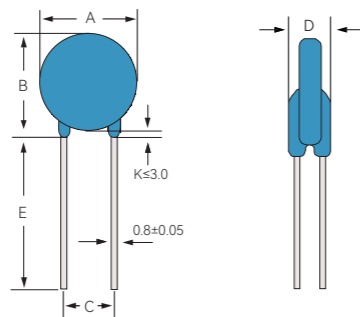
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs)	Maximum Clamping Voltage (8/20μs)	Withstanding Surge Current (8/20μs)	Rated Power	Typical Capacitance (Reference)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)	(W)	@1kHz(pf)	A max	B max	C ±0.8	D max	E min
14D Series Metal Oxide Varistors														
14D180K	15-22	11	14	5.7	10	38	1000	0.1	18000	17	20	7.5	4.6	15
14D220K	20-26	14	18	7.0	10	43	1000	0.1	15000	17	20	7.5	4.6	15
14D270K	24-30	17	22	8.5	10	53	1000	0.1	10000	17	20	7.5	4.6	15
14D330K	30-36	20	26	10	10	65	1000	0.1	8500	17	20	7.5	4.6	15
14D390K	35-43	25	31	12	10	77	1000	0.1	7500	17	20	7.5	4.6	15
14D470K	42-52	30	38	15	10	93	1000	0.1	6500	17	20	7.5	5.1	15
14D560K	50-62	35	45	18	10	110	1000	0.1	5600	17	20	7.5	5.1	15
14D680K	61-75	40	56	21	10	135	1000	0.1	4700	17	20	7.5	5.1	15
14D820K	74-90	50	65	26	50	135	4500	0.6	3900	17	20	7.5	4.6	15
14D101K	90-110	60	85	32	50	165	4500	0.6	3400	17	20	7.5	4.6	15
14D121K	108-132	75	100	38	50	200	4500	0.6	3100	17	20	7.5	4.6	15
14D151K	135-165	95	125	47	50	250	4500	0.6	3000	17	20	7.5	4.6	15
14D181K	162-198	115	150	57	50	300	4500	0.6	1030	17	20	7.5	5.1	15
14D201K	185-225	130	170	63	50	340	4500	0.6	970	17	20	7.5	5.1	15
14D221K	198-242	140	180	69	50	360	4500	0.6	840	17	20	7.5	5.1	15
14D241K	216-264	150	200	76	50	395	4500	0.6	710	17	20	7.5	5.1	15
14D271K	243-297	175	225	85	50	455	4500	0.6	650	17	20	7.5	5.1	15
14D301K	270-330	195	250	95	50	500	4500	0.6	600	17	20	7.5	5.1	15
14D331K	297-363	210	275	104	50	550	4500	0.6	550	17	20	7.5	5.6	15
14D361K	324-396	230	300	113	50	595	4500	0.6	500	17	20	7.5	5.6	15
14D391K	351-429	250	320	123	50	650	4500	0.6	480	17	20	7.5	5.6	15
14D431K	387-473	275	350	136	50	710	4500	0.6	440	17	20	7.5	6.2	15
14D471K	423-517	300	385	148	50	775	4500	0.6	420	17	20	7.5	6.2	15
14D511K	459-561	320	418	148	50	842	4500	0.6	390	17	20	7.5	6.2	15
14D561K	504-616	350	460	148	50	920	4500	0.6	360	17	20	7.5	6.2	15
14D621K	558-682	385	505	148	50	1025	4500	0.6	320	17	20	7.5	7.2	15
14D681K	612-748	420	560	148	50	1120	4500	0.6	290	17	20	7.5	7.2	15
14D751K	675-825	460	615	158	50	1240	4500	0.6	260	17	20	7.5	7.2	15
14D781K	702-858	485	640	164	50	1290	4500	0.6	230	17	20	7.5	7.2	15
14D821K	738-902	510	670	172	50	1355	4500	0.6	230	17	20	7.5	8.4	15
14D911K	819-1001	550	745	191	50	1500	4500	0.6	200	17	20	7.5	8.4	15
14D951K	855-1045	580	780	199	50	1570	4500	0.6	190	17	20	7.5	8.4	15
14D102K	900-1100	625	825	210	50	1650	4500	0.6	180	17	20	7.5	8.4	15
14D112K	990-1210	680	895	231	50	1815	4500	0.6	150	17	20	7.5	8.4	15
14D142K	1260-1540	870	1150	295	50	2310	4500	0.6	140	17	20	7.5	9.5	15
14D152K	1350-1650	900	1220	295	50	2475	4500	0.6	140	17	20	7.5	9.5	15
14D182K	1620-1980	1000	1465	216.0	50	2970	4500	0.6	120	17	20	7.5	11.3	15

Dimensions (mm)



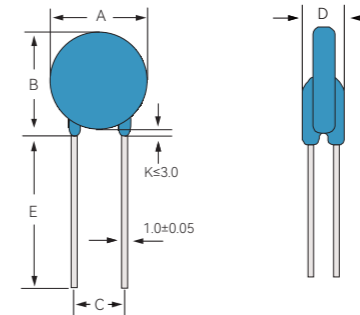
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage (8/20μs) (V _C (V))		Withstanding Surge Current (8/20μs) (I(A))	Rated Power (W)	Typical Capacitance (Reference) (@1kHz)(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	I _p (A)		I(A)	A _{max}				B _{max}	C ±0.8	D _{max}	E _{min}	
14DJ Series Metal Oxide Varistors															
14D820KJ	74-90	50	65	31	50	135	6000	0.6	3900	17	20	7.5	4.6	15	
14D101KJ	90-110	60	85	38	50	165	6000	0.6	3400	17	20	7.5	4.6	15	
14D121KJ	108-132	75	100	46	50	200	6000	0.6	3100	17	20	7.5	4.6	15	
14D151KJ	135-165	95	125	56	50	250	6000	0.6	3000	17	20	7.5	4.6	15	
14D181KJ	162-198	115	150	60	50	300	6000	0.6	1030	17	20	7.5	5.1	15	
14D201KJ	185-225	130	170	82	50	340	6000	0.6	970	17	20	7.5	5.1	15	
14D221KJ	198-242	140	180	90	50	360	6000	0.6	840	17	20	7.5	5.1	15	
14D241KJ	216-264	150	200	98	50	395	6000	0.6	710	17	20	7.5	5.1	15	
14D271KJ	243-297	175	225	116	50	455	6000	0.6	650	17	20	7.5	5.1	15	
14D301KJ	270-330	195	250	128	50	500	6000	0.6	600	17	20	7.5	5.1	15	
14D331KJ	297-363	210	275	140	50	550	6000	0.6	550	17	20	7.5	5.6	15	
14D361KJ	324-396	230	300	158	50	595	6000	0.6	500	17	20	7.5	5.6	15	
14D391KJ	351-429	250	320	170	50	650	6000	0.6	480	17	20	7.5	5.6	15	
14D431KJ	387-473	275	350	185	50	710	6000	0.6	440	17	20	7.5	6.2	15	
14D471KJ	423-517	300	385	205	50	775	6000	0.6	420	17	20	7.5	6.2	15	
14D511KJ	459-561	320	418	220	50	845	6000	0.6	390	17	20	7.5	6.2	15	
14D561KJ	504-616	350	460	240	50	925	6000	0.6	360	17	20	7.5	6.2	15	
14D621KJ	558-682	385	505	250	50	1025	6000	0.6	320	17	20	7.5	7.2	15	
14D681KJ	612-748	420	560	260	50	1120	6000	0.6	290	17	20	7.5	7.2	15	
14D751KJ	675-825	460	615	270	50	1240	6000	0.6	260	17	20	7.5	7.2	15	
14D781KJ	702-858	485	640	275	50	1290	6000	0.6	230	17	20	7.5	7.2	15	
14D821KJ	738-902	510	670	280	50	1355	6000	0.6	230	17	20	7.5	8.4	15	
14D911KJ	819-1001	550	745	295	50	1500	6000	0.6	200	17	20	7.5	8.4	15	
14D951KJ	855-1045	580	780	305	50	1570	6000	0.6	190	17	20	7.5	8.4	15	
14D102KJ	900-1100	625	825	335	50	1650	6000	0.6	180	17	20	7.5	8.4	15	
14D112KJ	990-1210	680	895	360	50	1815	6000	0.6	150	17	20	7.5	8.4	15	
14D142KJ	1350-1650	900	1220	370	50	2310	6000	0.6	140	17	20	7.5	9.5	15	
14D152KJ	1350-1650	900	1220	375	50	2640	6000	0.6	140	17	20	7.5	9.5	15	
14D182KJ	1620-1980	1000	1465	450	50	2970	6000	0.6	120	17	20	7.5	11.3	15	

Dimensions (mm)

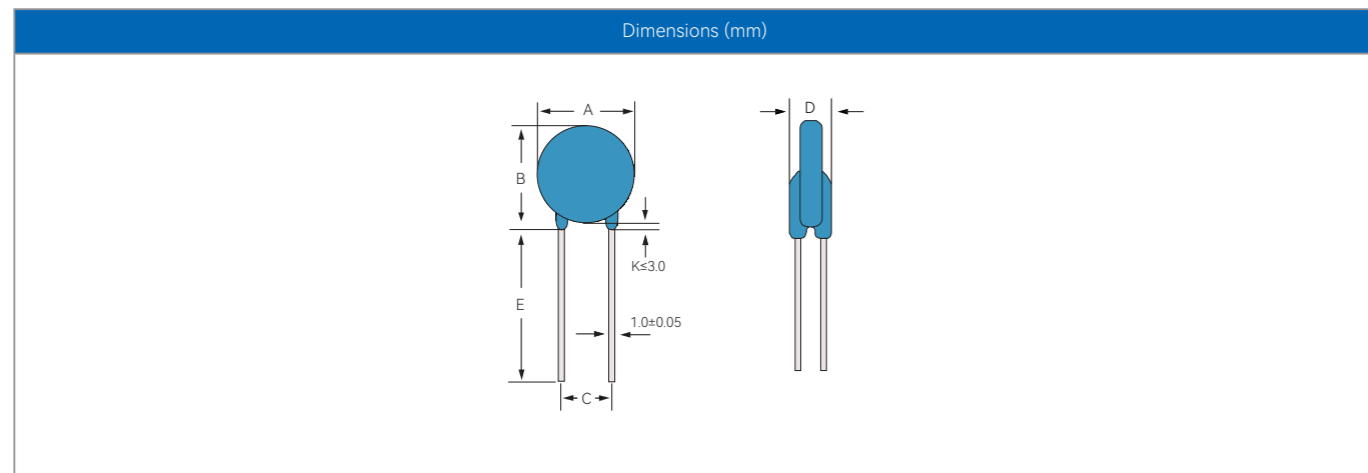


Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage (8/20μs) (V _C (V))		Withstanding Surge Current (8/20μs) (I(A))	Rated Power (W)	Typical Capacitance (Reference) (@1kHz)(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	I _p (A)		I(A)	A _{max}				B _{max}	C ±1.0	D _{max}	E _{min}	
20D Series Metal Oxide Varistors															
20D180K	16-20	11	14	11	25	38	2000	0.2	39000	23	26	10	5.1	15	
20D220K	20-24	14	18	14	25	43	2000	0.2	32000	23	26	10	5.1	15	
20D270K	24-30	17	22	18	25	53	2000	0.2	22000	23	26	10	5.1	15	
20D330K	30-36	20	26	23	25	65	2000	0.2	18000	23	26	10	5.1	15	
20D390K	35-43	25	31	26	25	77	2000	0.2	16000	23	26	10	5.1	15	
20D470K	42-52	30	38	33	25	93	2000	0.2	14000	23	26	10	5.6	15	
20D560K	50-62	35	45	41	25	110	2000	0.2	12000	23	26	10	5.6	15	
20D680K	61-75	40	56	46	25	135	2000	0.2	10000	23	26	10	5.6	15	
20D820K	74-90	50	65	48	100	135	6500	1.0	5800	23	26	10	5.1	15	
20D101K	90-110	60	85	52	100	165	6500	1.0	4800	23	26	10	5.1	15	
20D121K	108-132	75	100	56	100	200	6500	1.0	3800	23	26	10	5.1	15	
20D151K	135-165	95	125	71	100	250	6500	1.0	3000	23	26	10	5.1	15	
20D181K	162-198	115	150	86	100	300	6500	1.0	2600	23	26	10	5.7	15	
20D201K	185-225	130	170	97	100	340	6500	1.0	2400	23	26	10	5.7	15	
20D221K	198-242	140	180	102	100	360	6500	1.0	1800	23	26	10	5.7	15	
20D241K	216-264	150	200	110	100	395	6500	1.0	1500	23	26	10	5.7	15	
20D271K	243-297	175	225	130	100	455	6500	1.0	1400	23	26	10	5.7	15	
20D301K	270-330	190	250	139	100	505	6500	1.0	1350	23	26	10	6.1	15	
20D331K	297-363	210	275	153	100	550	6500	1.0	1300	23	26	10	6.1	15	
20D361K	324-396	230	300	166	100	595	6500	1.0	1250	23	26	10	6.1	15	
20D391K	351-429	250	320	184	100	650	6500	1.0	1180	23	26	10	6.1	15	
20D431K	387-473	275	350	194	100	710	6500	1.0	1100	23	26	10	6.7	15	
20D471K	423-517	300	385	224	100	775	6500	1.0	1050	23	26	10	6.7	15	
20D511K	459-561	320	418	224	100	842	6500	1.0	1000	23	26	10	6.7	15	
20D561K	504-616	350	460	224	100	920	6500	1.0	970	23	26	10	6.7	15	
20D621K	558-682	385	505	224	100	1025	6500	1.0	950	23	26	10	7.7	15	
20D681K	612-748	420	560	235	100	1120	6500	1.0	900	23	26	10	7.7	15	
20D751K	675-825	460	615	260	100	1240	6500	1.0	850	23	26	10	7.7	15	
20D781K	702-858	485	640	269	100	1290	6500	1.0	750	23	26	10	7.7	15	
20D821K	738-902	510	670	288	100	1355	6500	1.0	700	23	26	10	8.9	15	
20D911K	819-1001	550	745	316	100	1500	6500	1.0	600	23	26	10	8.9	15	
20D951K	855-1045	580	780	328	100	1570	6500	1.0	580	23	26	10	8.9	15	
20D102K	900-1100	625	825	349	100	1650	6500	1.0	500	23	26	10	8.9	15	
20D112K	990-1210	680	895	391	100	1815	6500	1.0	450	23	26	10	8.9	15	
20D122K	1080-1320	740	975	425	100	2010	6500	1.0	440	23	26	10	8.9	15	
20D142K	1260-1540	870	1150	481	100	2310	6500	1.0	410	23	26	10	10	15	
20D152K	1350-1650	900	1220	516	100	2475	6500	1.0	400	23	26	10	10	15	
20D182K	1620-1980	1000	1465	632	100	2970	6500	1.0	220	23	26	10	11.8	15	

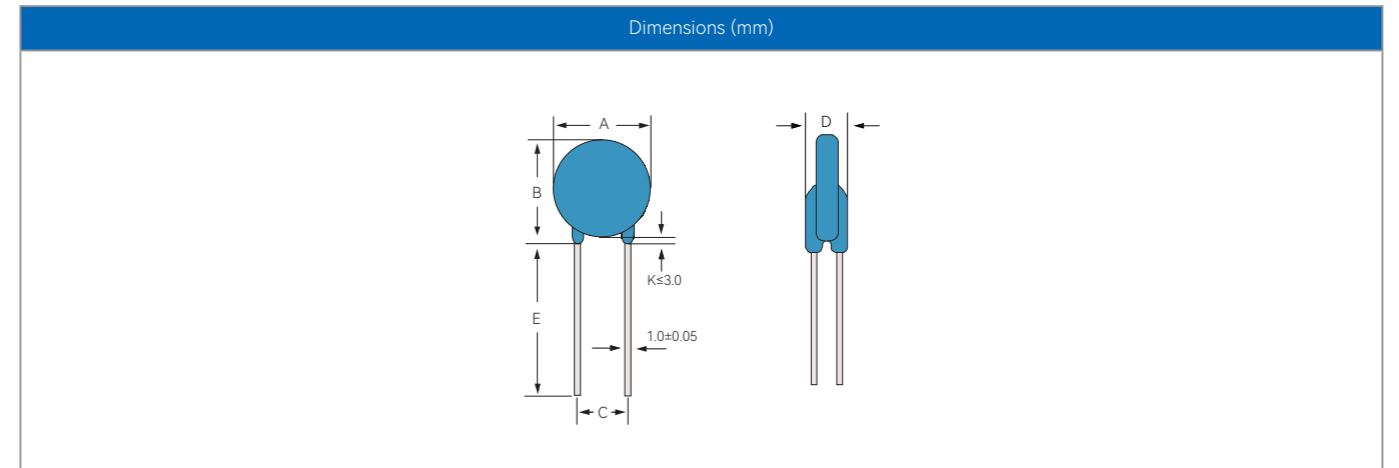
Dimensions (mm)



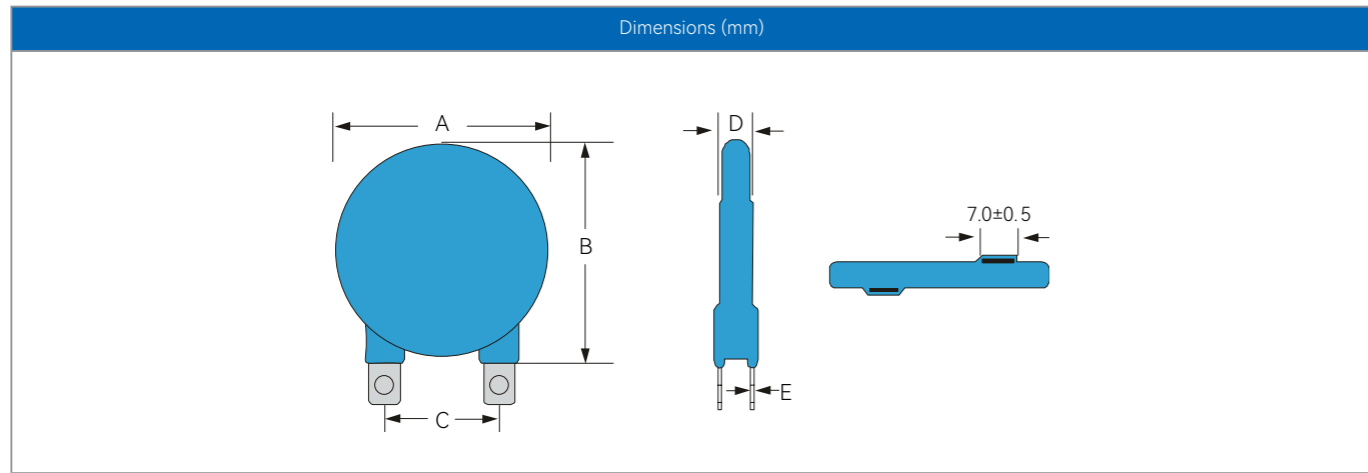
Type Number	Maximum Allowable Voltage			Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage (8/20μs)		Withstanding Surge Current (8/20μs) (A)	Rated Power (W)	Typical Capacitance (Reference) @1kHz(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)		I _p (A)	V _C (V)				A _{max}	B _{max}	C ±1.0	D _{max}	E _{min}
20DJ Series Metal Oxide Varistors														
20D820KJ	74-90	50	65	67	100	135	10000	1.0	5800	23	26	10	5.1	15
20D101KJ	90-110	60	85	73	100	165	10000	1.0	4800	23	26	10	5.1	15
20D121KJ	108-132	75	100	78	100	200	10000	1.0	3800	23	26	10	5.1	15
20D151KJ	135-165	95	125	99	100	250	10000	1.0	3000	23	26	10	5.1	15
20D181KJ	162-198	115	150	152	100	300	10000	1.0	2600	23	26	10	5.7	15
20D201KJ	185-225	130	170	175	100	340	10000	1.0	2400	23	26	10	5.7	15
20D221KJ	198-242	140	180	185	100	360	10000	1.0	1800	23	26	10	5.7	15
20D241KJ	216-264	150	200	198	100	395	10000	1.0	1500	23	26	10	5.7	15
20D271KJ	243-297	175	225	220	100	455	10000	1.0	1400	23	26	10	5.7	15
20D301KJ	270-330	195	250	245	100	505	10000	1.0	1350	23	26	10	6.1	15
20D331KJ	297-363	210	275	268	100	550	10000	1.0	1300	23	26	10	6.1	15
20D361KJ	324-396	230	300	315	100	595	10000	1.0	1250	23	26	10	6.1	15
20D391KJ	351-429	250	320	350	100	650	10000	1.0	1180	23	26	10	6.1	15
20D431KJ	387-473	275	350	380	100	710	10000	1.0	1100	23	26	10	6.7	15
20D471KJ	423-517	300	385	405	100	775	10000	1.0	1050	23	26	10	6.7	15
20D511KJ	459-561	320	418	445	100	845	10000	1.0	1000	23	26	10	6.7	15
20D561KJ	504-616	350	460	475	100	920	10000	1.0	970	23	26	10	6.7	15
20D621KJ	558-682	385	505	490	100	1025	10000	1.0	950	23	26	10	7.7	15
20D681KJ	612-748	420	560	500	100	1120	10000	1.0	900	23	26	10	7.7	15
20D751KJ	675-825	460	615	525	100	1240	10000	1.0	850	23	26	10	7.7	15
20D781KJ	702-858	485	640	530	100	1290	10000	1.0	750	23	26	10	7.7	15
20D821KJ	738-902	510	670	545	100	1355	10000	1.0	700	23	26	10	8.9	15
20D911KJ	819-1001	550	745	595	100	1500	10000	1.0	600	23	26	10	8.9	15
20D951KJ	855-1045	580	780	610	100	1570	10000	1.0	580	23	26	10	8.9	15
20D102KJ	900-1100	625	825	650	100	1650	10000	1.0	500	23	26	10	8.9	15
20D112KJ	990-1210	680	895	720	100	1815	10000	1.0	450	23	26	10	8.9	15
20D122KJ	1080-1320	740	975	730	100	2010	10000	1.0	440	23	26	10	8.9	15
20D142KJ	1260-1540	870	1150	750	100	2310	10000	1.0	410	23	26	10	10	15
20D152KJ	1350-1650	900	1220	790	100	2475	10000	1.0	400	23	26	10	10	15
20D182KJ	1620-1980	1000	1465	850	100	2970	10000	1.0	220	23	26	10	11.8	15



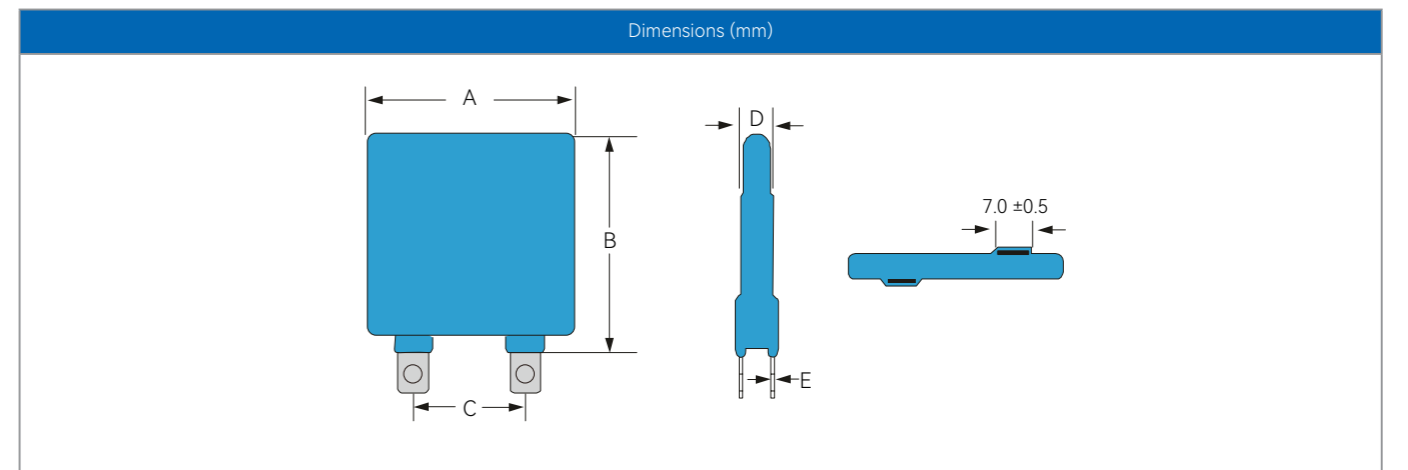
Type Number	Maximum Allowable Voltage			Maximum Energy (10/1000μs) (J)	Maximum Clamping Voltage		Maximum Peak Current (8/20μs) (A)	Typical Capacitance (Reference) @1kHz(pf)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)		I _p (A)	V _C (V)			A _{max}	B _{max}	C ±1.0	D _{max}	E _{min}
25D Series Metal Oxide Varistors													
25D820K	74-90	50	65	80	150	135	18000	7700	28	31	10	4.9	15
25D101K	90-110	60	85	100	150	165	18000	6300	28	31	10	5.1	15
25D121K	108-132	75	100	120	150	200	18000	5200	28	31	10	5.2	15
25D151K	135-165	95	125	160	150	250	18000	4300	28	31	10	5.6	15
25D181K	162-198	115	150	175	150	300	18000	3500	28	31	10	5.3	15
25D201K	180-220	130	170	190	150	340	18000	3200	28	31	10	5.5	15
25D221K	198-242	140	180	200	150	360	18000	2900	28	31	10	5.6	15
25D241K	216-264	150	200	220	150	395	18000	2650	28	31	10	5.7	15
25D271K	243-297	175	225	255	150	455	18000	2400	28	31	10	5.9	15
25D301K	270-330	190	250	275	150	500	18000	2100	28	31	10	6.1	15
25D331K	297-363	210	275	300	150	550	18000	1900	28	31	10	6.3	15
25D361K	324-396	230	300	330	150	595	18000	1750	28	31	10	6.6	15
25D391K	351-429	250	320	360	150	650	18000	1600	28	31	10	6.8	15
25D431K	387-473	275	350	380	150	710	18000	1500	28	31	10	7.1	15
25D471K	423-517	300	385	400	150	775	18000	1400	28	31	10	7.4	15
25D511K	459-561	320	415	420	150	845	18000	1250	28	31	10	7.8	15
25D561K	504-616	350	460	440	150	925	18000	1150	28	31	10	8.1	15
25D621K	558-682	385	505	450	150	1025	18000	1050	28	31	10	8.5	15
25D681K	612-748	420	560	460	150	1120	18000	950	28	31	10	8.6	15
25D751K	675-825	460	615	510	150	1240	18000	850	28	31	10	9.1	15
25D781K	702-858	485	640	530	150	1290	18000	850	28	31	10	9.3	15
25D821K	738-902	510	670	570	150	1355	18000	800	28	31	10	9.6	15
25D911K	819-1001	550	745	620	150	1500	18000	700	28	31	10	10.2	15
25D102K	900-1100	625	825	685	150	1650	18000	650	28	31	10	10.8	15
25D112K	990-1210	680	895	770	150	1815	18000	600	28	31	10	11.5	15
25D122K	1080-1320	750	990	770	150	1980	18000	550	28	31	10	12.2	15



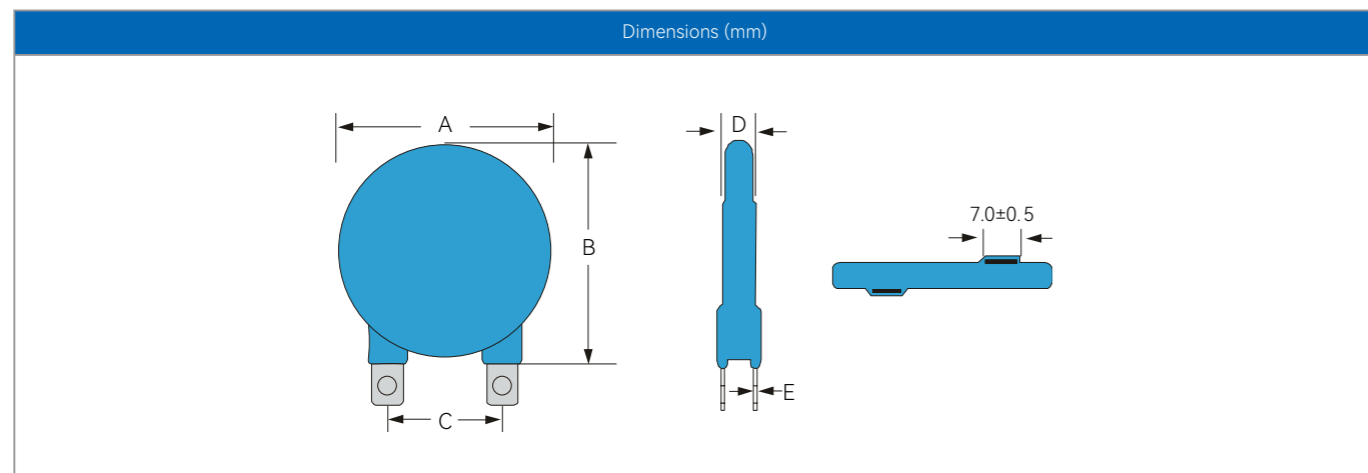
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs)	Maximum Clamping Voltage(8/20μs)		Maximum Peak Current (8/20μs)	Typical Capacitance (Reference)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)	@1kHz(pf)	A max	B max	C ±1.0	D max	E ±0.1	
32D Series Metal Oxide Varistors														
32D201K	185-225	130	170	250	200	340	30000	5200	35	40	25.4	6.4	0.5	
32D241K	216-264	150	200	290	200	395	30000	5100	35	40	25.4	6.7	0.5	
32D271K	243-297	175	225	300	200	455	30000	4800	35	40	25.4	6.9	0.5	
32D301K	270-330	190	250	330	200	500	30000	4500	35	40	25.4	7.1	0.5	
32D331K	297-363	210	275	360	200	550	30000	4300	35	40	25.4	7.3	0.5	
32D361K	324-396	230	300	380	200	595	30000	3900	35	40	25.4	7.6	0.5	
32D391K	351-429	250	320	400	200	650	30000	3200	35	40	25.4	7.8	0.5	
32D431K	387-473	275	350	430	200	710	30000	3100	35	40	25.4	8.0	0.5	
32D471K	423-517	300	385	460	200	775	30000	2800	35	40	25.4	8.3	0.5	
32D511K	459-561	320	415	510	200	845	30000	2700	35	40	25.4	8.7	0.5	
32D621K	558-682	385	505	570	200	1025	30000	2400	35	40	25.4	9.4	0.5	
32D681K	612-748	420	560	600	200	1120	30000	2200	35	40	25.4	9.5	0.5	
32D751K	675-825	460	615	620	200	1240	30000	2000	35	40	25.4	10.0	0.5	
32D781K	702-858	485	640	660	200	1290	30000	1900	35	40	25.4	10.2	0.5	
32D821K	738-902	510	670	700	200	1355	30000	1800	35	40	25.4	10.8	0.5	
32D911K	819-1001	550	745	750	200	1500	30000	1300	35	40	25.4	11.2	0.5	
32D951K	855-1045	575	765	780	200	1570	30000	1200	35	40	25.4	11.0	0.5	
32D102K	900-1100	625	825	810	200	1650	30000	1100	35	40	25.4	11.2	0.5	
32D112K	990-1210	680	895	910	200	1815	30000	1000	35	40	25.4	12.3	0.5	
32D122K	1080-1320	750	990	960	200	1980	30000	920	35	40	25.4	13.0	0.5	



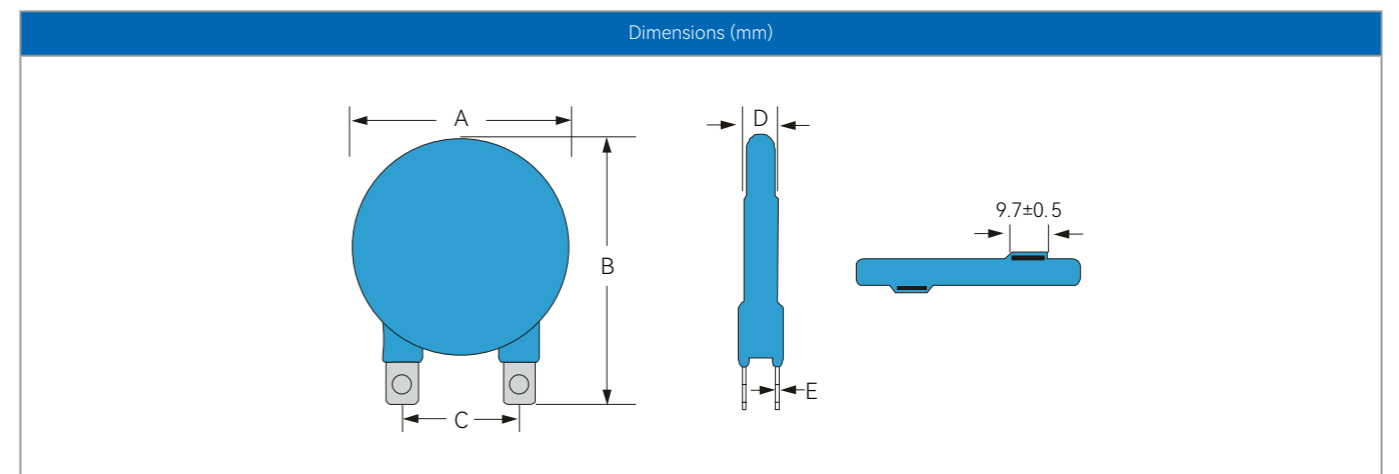
Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs)	Maximum Peak Current (8/20μs)		Maximum Peak Current (8/20μs)	Typical Capacitance (Reference)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)	I _p (A)	V _C (V)	I(A)	@1kHz(pf)	A max	B max	C ±1.0	D max	E ±0.15	
34S Series Metal Oxide Varistors														
34S470K	42-52	30	38	96	60	93	20000	35000	36	40	25.4	6.5	0.5	
34S560K	50-63	35	45	115	60	110	20000	29500	36	40	25.4	6.8	0.5	
34S680K	61-75	40	56	136	60	135	20000	24200	36	40	25.4	7.2	0.5	
34S820K	74-90	50	65	156	300	135	40000	17950	36	40	25.4	5.9	0.5	
34S101K	90-110	60	85	195	300	165	40000	15000	36	40	25.4	6.1	0.5	
34S121K	108-132	75	100	235	300	200	40000	12200	36	40	25.4	6.3	0.5	
34S151K	135-165	95	125	296	300	250	40000	10000	36	40	25.4	6.6	0.5	
34S181K	162-198	115	150	350	300	300	40000	8250	36	40	25.4	6.3	0.5	
34S201K	185-225	130	170	400	300	340	40000	6750	36	40	25.4	6.4	0.5	
34S221K	198-242	140	180	450	300	360	40000	6400	36	40	25.4	6.6	0.5	
34S241K	222-270	150	200	480	300	395	40000	5650	36	40	25.4	6.7	0.5	
34S271K	256-310	180	225	540	300	455	40000	5100	36	40	25.4	6.9	0.5	
34S301K	270-330	190	250	600	300	500	40000	4510	36	40	25.4	7.1	0.5	
34S331K	297-363	210	275	656	300	550	40000	4150	36	40	25.4	7.3	0.5	
34S361K	324-396	230	300	745	300	595	40000	3750	36	40	25.4	7.6	0.5	
34S391K	362-440	250	320	830	300	650	40000	3500	36	40	25.4	7.8	0.5	
34S431K	387-473	275	350	920	300	710	40000	2950	36	40	25.4	8.0	0.5	
34S471K	423-517	300	385	1000	300	775	40000	2880	36	40	25.4	8.3	0.5	
34S511K	459-561	320	415	1060	300	845	40000	2650	36	40	25.4	8.7	0.5	
34S561K	504-616	350	460	1150	300	925	40000	2450	36	40	25.4	9.0	0.5	
34S621K	558-682	385	505	1250	300	1025	40000	2200	36	40	25.4	9.4	0.5	
34S681K	612-748	420	560	1250	300	1120	40000	2000	36	40	25.4	9.5	0.5	
34S751K	675-825	460	615	1280	300	1240	40000	1820	36	40	25.4	10.0	0.5	
34S781K	702-858	485	640	1350	300	1290	40000	1750	36	40	25.4	10.2	0.5	
34S821K	738-902	510	670	1395	300	1355	40000	1650	36	40	25.4	10.8	0.5	
34S911K	819-1001	550	745	1475	300	1500	40000	1500	36	40	25.4	11.2	0.5	
32D951K	855-1045	575	760	1485	300	1570	40000	1430	36	40	25.4	11.0	0.5	
34S102K	900-1100	625	825	1550	300	1650	40000	1350	36	40	25.4	11.2	0.5	
34S112K	990-1210	680	895	1700	300	1815	40000	1230	36	40	25.4	12.3	0.5	
34S122K	1150-1320	750	980	1750	300	1980	40000	1135	36	40	25.4	13.0	0.5	
34S142K	1315-1540	850	1120	1750	300	2310	40000	970	36	40	25.4	14.3	0.5	
34S162K	1550-1760	1000	1320	2000	300	2640	40000	840	36	40	25.4	13.3	0.5	
34S182K	1700-1980	1100	1485	2000	300	2970	40000	800	36	40	25.4	14.2	0.5	

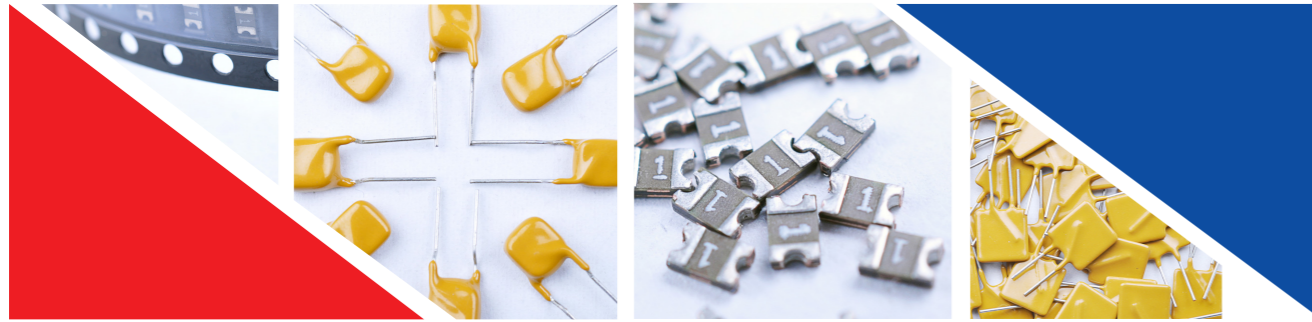


Type Number	Varistor Voltage		Maximum Allowable Voltage		Maximum Energy (10/1000μs)	Maximum Clamping Voltage(8/20μs)		Maximum Peak Current (8/20μs)	Typical Capacitance (Reference)	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)		I _p (A)	V _C (V)			I(A)	@1kHz(pf)	A max	B max	C ±1.0
40D Series Metal Oxide Varistors														
40D241K	216-264	150	200	480	300	395	40000	5650		42	48	25.4	6.7	0.5
40D391K	351-429	250	320	830	300	650	40000	3500		42	48	25.4	7.8	0.5
40D431K	410-496	275	350	645	300	710	40000	4835		42	48	25.4	8.0	0.5
40D471K	423-517	300	385	1000	300	775	40000	2880		42	48	25.4	8.3	0.5
40D511K	459-561	320	415	1060	300	845	40000	2650		42	48	25.4	8.7	0.5
40D681K	612-748	420	560	1250	300	1120	40000	2000		42	48	25.4	9.5	0.5
40D781K	702-858	485	640	1350	300	1290	40000	1750		42	48	25.4	10.2	0.5
40D821K	738-902	510	670	1395	300	1355	40000	1650		42	48	25.4	10.8	0.5
40D911K	819-1001	550	745	1475	300	1500	40000	1500		42	48	25.4	11.2	0.5
40D102K	900-1100	625	825	1550	300	1650	40000	1350		42	48	25.4	11.2	0.5
40D112K	990-1210	680	895	1770	300	1815	40000	1230		42	48	25.4	12.3	0.5
40D122K	1080-1320	750	980	1750	300	1980	40000	1135		42	48	25.4	13.0	0.5
40D162K	1550-1760	1000	1320	2000	300	2640	40000	840		42	48	25.4	13.3	0.5



Type Number	Varistor Voltage		Maximum Allowable Voltage		Energy (2ms)	Maximum Clamping Voltage(8/20μs)		Withstanding Surge Current (8/20μs)		Rated Power	Package Dimensions (mm)				
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	(J)		I _p (A)	V _C (V)	I _{max} (kA)	I _n (kA)		(W)	A max	B max	C ±1.0	D max
53D Series Metal Oxide Varistors															
53D201K	185-225	130	170	330	500	340	70	30	1.6	58	78	25.4	7.5	0.5	
53D221K	198-242	140	180	355	500	360	70	30	1.6	58	78	25.4	7.5	0.5	
53D241K	216-264	150	200	380	500	395	70	30	1.6	58	78	25.4	7.5	0.5	
53D271K	243-297	175	225	430	500	455	70	30	1.6	58	78	25.4	7.5	0.5	
53D301K	270-330	190	245	455	500	500	70	30	1.6	58	78	25.4	9.5	0.5	
53D331K	297-363	210	270	480	500	545	70	30	1.6	58	78	25.4	9.5	0.5	
53D361K	324-396	230	300	510	500	595	70	30	1.6	58	78	25.4	9.5	0.5	
53D391K	351-429	250	320	550	500	650	70	30	1.6	58	78	25.4	9.5	0.5	
53D431K	387-473	275	350	635	500	710	70	30	1.6	58	78	25.4	9.5	0.5	
53D471K	423-517	300	385	640	500	775	70	30	1.6	58	78	25.4	9.5	0.5	
53D511K	459-561	320	415	640	500	845	70	30	1.6	58	78	25.4	9.5	0.5	
53D561K	504-616	350	460	645	500	925	70	30	1.6	58	78	25.4	9.5	0.5	
53D621K	558-682	385	505	655	500	1025	70	30	1.6	58	78	25.4	9.5	0.5	
53D681K	612-748	420	560	710	500	1120	70	30	1.6	58	78	25.4	11.2	0.5	
53D751K	675-825	460	615	790	500	1240	70	30	1.6	58	78	25.4	11.2	0.5	
53D781K	702-858	485	640	820	500	1290	70	30	1.6	58	78	25.4	11.2	0.5	
53D821K	738-902	510	670	860	500	1355	70	30	1.6	58	78	25.4	11.2	0.5	
53D911K	819-1001	550	745	950	500	1500	70	30	1.6	58	78	25.4	11.2	0.5	
53D102K	900-1100	625	825	990	500	1650	70	30	1.6	58	78	25.4	12.8	0.5	
53D122K	1080-1320	750	980	1015	500	1980	70	30	1.6	58	78	25.4	12.8	0.5	
53D152K	1350-1650	900	1220	1140	500	2475	70	30	1.6	58	78	25.4	16	0.5	
53D182K	1620-1980	1000	1465	1370	500	2970	70	30	1.6	58	78	25.4	16	0.5	





产品特点 Features

<p>电压可从6V到600V Voltage from 6V to 600V.</p>	<p>快速反应时间 Fast response time.</p>
<p>电流可从十几毫安到几十安 Protection current from milliamps to amps.</p>	<p>对电流、温度敏感 On current, the temperature sensitive.</p>
<p>广泛的应用 Wide range of applications.</p>	

应用范围 Application

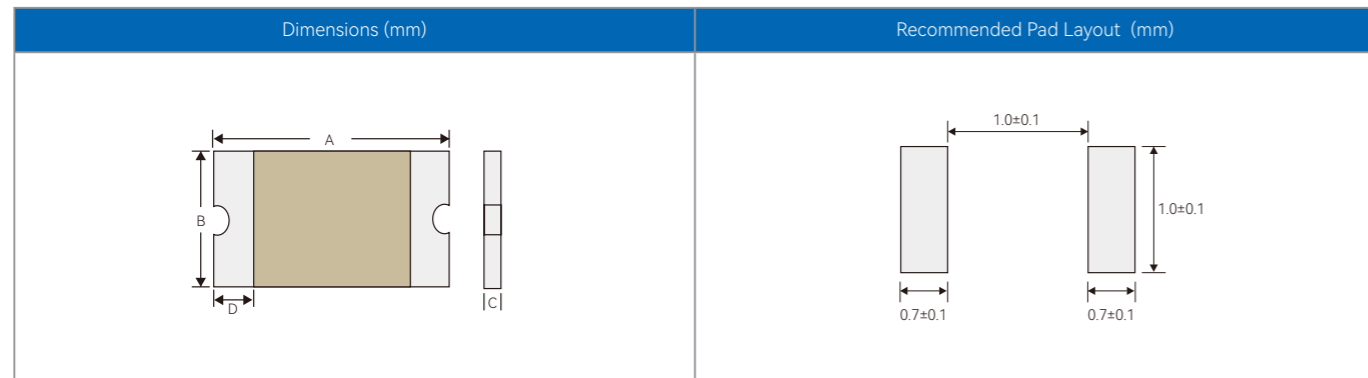
<p>电源系统 Power Supply System</p>	<p>安全和消防 警报系统 Safety and Fire Alarm System</p>	<p>汽车电子 系统 Automotive Electronic System</p>	<p>工程和 工业控制 Programming Control</p>	<p>消费电子 Consumer Electronics</p>
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自恢复保险丝 Positive Thermal Coefficient (PTC)

SMD0603 Series	6-60V	0.01~1.4A	137
SMD0805 Series	6-30V	0.05~4A	138
SMD1206 Series	6-60V	0.05~5A	139
SMD1210 Series	6-30V	0.05~2.6A	141
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SMD2018 Series	10-60V	0.3~2A	144
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RL06 Series	6V	0.3~2.5A	147
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RL60 Series	60V	0.035~5A	150
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 © 因技术不断更新，手册中图片仅供参考，外观以收到实物为准。

Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	P _{dtyp}	R _{min}	R1 _{max}	Package Dimensions (mm)							
				A	A					A		B		C		D	
	A	A	V _{DC}	Current A	Time (Sec)	A	W	Ω	Ω	min	max	min	max	min	max	min	
SMD0603 Series Positive Thermal Coefficient																	
SMD0603P001TF	0.01	0.03	60	0.2	1	20	0.5	4	100	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P002TF	0.02	0.06	60	0.2	1	20	0.5	4	70	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P003TF	0.03	0.09	30	0.2	1	20	0.5	4	50	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P004TF	0.04	0.12	24	0.2	1	20	0.5	4	40	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P004TF/30	0.04	0.12	30	0.2	1	20	0.5	4	40	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P005TF	0.05	0.15	15	0.25	1	20	0.5	3.8	35	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P010TF	0.1	0.3	15	0.5	1	40	0.5	0.9	8	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P010TF/24	0.1	0.3	24	0.5	0.6	40	0.5	0.9	8	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P020TF	0.2	0.5	9	1	0.6	40	0.5	0.55	3.5	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P020TF/16	0.2	0.5	16	1	0.6	40	0.5	0.55	3.5	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P025TF	0.25	0.55	9	8	0.08	40	0.5	0.5	3	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P025TF/16	0.25	0.55	16	8	0.08	40	0.5	0.5	3	1.45	1.85	0.65	1.05	0.4	1.0	0.15	
SMD0603P035TF	0.35	0.75	6	8	0.1	40	0.5	0.2	1.4	1.45	1.85	0.65	1.05	0.35	0.9	0.15	
SMD0603P040TF	0.4	0.8	6	8	0.1	35	0.5	0.5	3.5	1.45	1.85	0.65	1.05	0.4	0.9	0.15	
SMD0603P050TF	0.5	1	6	8	0.1	35	0.5	0.09	0.7	1.45	1.85	0.65	1.05	0.55	1.15	0.15	
SMD0603P050TF/12	0.5	1	12	8	0.1	35	0.5	0.09	0.7	1.45	1.85	0.65	1.05	0.55	1.15	0.15	
SMD0603P060TF	0.6	1.2	6	8	0.1	35	0.5	0.45	3	1.45	1.85	0.65	1.05	0.55	1.15	0.15	
SMD0603P065TF	0.65	1.3	6	8	0.1	35	0.5	0.2	1	1.45	1.85	0.65	1.05	0.55	1.15	0.15	
SMD0603P075TF	0.75	1.4	6	8	0.1	35	0.5	0.06	0.45	1.45	1.85	0.65	1.05	0.55	1.15	0.15	



Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	P _{dtyp}	R _{min}	R1 _{max}	Package Dimensions (mm)							
				A	A					A		B		C		D	
	A	A	V _{DC}	Current A	Time (Sec)	A	W	Ω	Ω	min	max	min	max	min	max	min	
SMD0805 Series Positive Thermal Coefficient																	
SMD0805P005TF	0.05	0.15	15	0.5	1.5	30	0.5	1.5	18	2.0	2.2	1.2	1.5	0.4	1.0	0.2	
SMD0805P005TF/30	0.05	0.15	30	0.5	1.5	30	0.5	1.5	18	2.0	2.2	1.2	1.5	0.4	1.0	0.2	
SMD0805P010TF	0.1	0.3	15	0.5	1.5	30	0.5	0.75	6	2.0	2.2	1.2	1.5	0.4	1.0	0.2	
SMD0805P010TF/24	0.1	0.3	24	0.5	1.5	30	0.5	0.75	6	2.0	2.2	1.2	1.5	0.4	1.0	0.2	
SMD0805P010TF/30	0.1	0.3	30	0.5	1.5	30	0.5	0.75	6	2.0	2.2	1.2	1.5	0.4	1.0	0.2	
SMD0805P020TF	0.2	0.5	9	8	0.02	30	0.5	0.5	3.5	2.0	2.2	1.2	1.5	0.35	1.0	0.2	
SMD0805P020TF/12	0.2	0.5	12	8	0.02	30	0.5	0.5	3.5	2.0	2.2	1.2	1.5	0.35	1.0	0.2	
SMD0805P020TF/16	0.2	0.5	16	8	0.02	30	0.5	0.5	3.5	2.0	2.2	1.2	1.5	0.35	1.0	0.2	
SMD0805P020TF/24	0.2	0.5	24	8	0.02	30	0.5	0.5	3.5	2.0	2.2	1.2	1.5	0.35	0.8	0.2	
SMD0805P035TF	0.35	0.75	6	8	0.1	30	0.5	0.2	1.2	2.0	2.2	1.2	1.5	0.35	1.0	0.2	
SMD0805P035TF/12	0.35	0.75	12	8	0.1	30	0.5	0.2	1.2	2.0	2.2	1.2	1.5	0.35	1.0	0.2	
SMD0805P050TF	0.5	1	6	8	0.1	30	0.5	0.1	0.85	2.0	2.2	1.2	1.5	0.3	1.1	0.2	
SMD0805P050TF/12	0.5	1	12	8	0.1	30	0.5	0.1	0.85	2.0	2.2	1.2	1.5	0.3	1.1	0.2	
SMD0805P050TF/16	0.5	1	16	8	0.1	30	0.5	0.1	0.85	2.0	2.2	1.2	1.5	0.5	1.1	0.2	
SMD0805P050TF/24	0.5	1	24	8	0.1	30	0.5	0.1	0.85	2.0	2.2	1.2	1.5	0.5	1.1	0.2	
SMD0805P075TF	0.75	1.5	6	8	0.2	35	0.6	0.07	0.385	2.0	2.2	1.2	1.5	0.4	1.3	0.2	
SMD0805P075TF/12	0.75	1.5	12	8	0.2	35	0.6	0.07	0.385	2.0	2.2	1.2	1.5	0.4	1.3	0.2	
SMD0805P100TF	1	1.95	6	8	0.3	35	0.6	0.04	0.23	2.0	2.2	1.2	1.5	0.5	1.3	0.2	
SMD0805P100TF/12	1	1.95	12	8	0.3	35	0.6	0.04	0.23	2.0	2.2	1.2	1.5	0.5	1.3	0.2	
SMD0805P110TF	1.1	2.2	6	8	0.3	35	0.6	0.035	0.21	2.0	2.2	1.2	1.5	0.5	1.3	0.2	
SMD0805P110TF/12	1.1	2.2	12	8	0.3	35	0.6	0.035	0.21	2.0	2.2	1.2	1.5	0.5	1.3	0.2	
SMD0805P125TF	1.25	2.5	6	8	0.6	35	1.5	0.025	0.14	2.0	2.2	1.2	1.5	1.0	1.5	0.2	
SMD0805P150TF	1.5	3	6	8	0.5	35	1	0.015	0.13	2.0	2.2	1.2	1.5	1.0	1.5	0.2	
SMD0805P200TF	2	4	6	10	2	50	0.7	0.006	0.045	2.0	2.2	1.2	1.5	0.4	1.2	0.2	
SMD0805P400TF	4	8	6	20	2	50	0.8	0.003	0.015	2.0	2.2	1.2	1.5	0.6	1.6	0.2	
SMD0805P400TF/12	4	8	12	20	2	50	0.8	0.003	0.015	2.0	2.2	1.2	1.5	0.6	1.6	0.2	



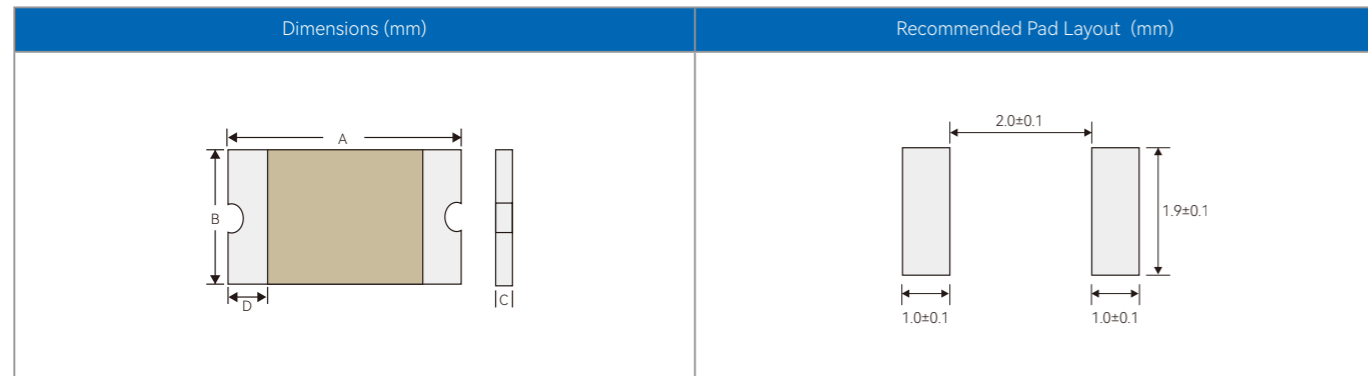
Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	Pd _{Typ}	R _{min}	R1 _{max}	Package Dimensions (mm)							
										A		B		C		D	
	A	A	V _{DC}	Current A	Time (Sec)	A	W	Ω	Ω	min	max	min	max	min	max		min
SMD1206 Series Positive Thermal Coefficient																	
SMD1206P005TF	0.05	0.15	60	0.25	1.5	10	0.4	3.6	50	3.0	3.6	1.5	1.9	0.6	1.2	0.15	
SMD1206P010TF	0.1	0.25	60	0.5	1	10	0.4	1.6	15	3.0	3.6	1.5	1.9	0.6	1.2	0.15	
SMD1206P012TF	0.12	0.29	60	0.5	1	10	0.4	1.35	10	3.0	3.6	1.5	1.9	0.6	1.2	0.15	
SMD1206P012TF/48	0.12	0.29	48	0.5	1	10	0.4	1.35	10	3.0	3.6	1.5	1.9	0.6	1.2	0.15	
SMD1206P016TF	0.16	0.37	16	1	0.3	10	0.4	1	6	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P016TF/24	0.16	0.37	24	1	0.3	10	0.4	1	6	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P016TF/33	0.16	0.37	33	1	0.3	10	0.4	1	6	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P020TF	0.2	0.46	24	8	0.08	10	0.6	0.35	2.7	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P020TF/30	0.2	0.46	30	8	0.08	10	0.6	0.35	2.7	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P025TF	0.25	0.5	16	8	0.08	10	0.6	0.35	2.5	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P025TF/24	0.25	0.5	24	8	0.08	10	0.6	0.35	2.5	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P025TF/30	0.25	0.5	30	8	0.08	10	0.6	0.35	2.5	3.0	3.6	1.5	1.9	0.4	1.0	0.15	
SMD1206P035TF	0.35	0.75	6	8	0.1	35	0.6	0.25	1.3	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P035TF/16	0.35	0.75	16	8	0.1	35	0.6	0.25	1.3	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P035TF/30	0.35	0.75	30	8	0.1	35	0.6	0.25	1.3	3.0	3.6	1.5	1.9	0.4	0.9	0.15	
SMD1206P050TF	0.5	1	6	8	0.1	35	0.6	0.15	0.7	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P050TF/13.2	0.5	1	13.2	8	0.1	35	0.6	0.15	0.7	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P050TF/16	0.5	1	16	8	0.1	35	0.6	0.15	0.7	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P050TF/24	0.5	1	24	8	0.1	35	0.6	0.15	0.7	3.0	3.6	1.5	1.9	0.5	1.0	0.15	
SMD1206P050TF/30	0.5	1	30	8	0.1	35	0.6	0.15	0.7	3.0	3.6	1.5	1.9	0.5	1.0	0.15	
SMD1206P075TF	0.75	1.5	6	8	0.2	35	0.6	0.09	0.5	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P075TF/13.2	0.75	1.5	13.2	8	0.2	35	0.6	0.09	0.5	3.0	3.6	1.5	1.9	0.5	1.0	0.15	
SMD1206P075TF/16	0.75	1.5	16	8	0.2	35	0.6	0.09	0.5	3.0	3.6	1.5	1.9	0.5	1.0	0.15	
SMD1206P075TF/24	0.75	1.5	24	8	0.2	35	0.6	0.09	0.5	3.0	3.6	1.5	1.9	0.6	1.2	0.15	
SMD1206P075TF/30	0.75	1.5	30	8	0.2	35	0.6	0.09	0.5	3.0	3.6	1.5	1.9	0.7	1.3	0.15	
SMD1206P100TF	1	1.8	6	8	0.3	35	0.6	0.05	0.27	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P100TF/16	1	1.8	16	8	0.3	35	0.6	0.05	0.27	3.0	3.6	1.5	1.9	0.5	1.0	0.15	
SMD1206P100TF/24	1	1.8	24	8	0.3	35	0.6	0.05	0.27	3.0	3.6	1.5	1.9	0.7	1.3	0.15	
SMD1206P110TF	1.1	2.2	6	8	0.3	35	0.6	0.04	0.25	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P110TF/16	1.1	2.2	16	8	0.3	35	0.6	0.04	0.25	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P110TF/24	1.1	2.2	24	8	0.3	35	0.6	0.04	0.25	3.0	3.6	1.5	1.9	0.35	0.8	0.15	
SMD1206P150TF	1.5	3	6	8	0.3	35	0.8	0.025	0.13	3.0	3.6	1.5	1.9	0.5	1.0	0.15	
SMD1206P150TF/13.2	1.5	3	13.2	8	0.3	35	0.8	0.025	0.13	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P150TF/16	1.5	3	16	8	0.3	35	0.8	0.025	0.13	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P200TF	2	3.5	6	8	1.5	35	0.8	0.015	0.08	3.0	3.6	1.5	1.9	0.7	1.3	0.15	
SMD1206P200TF/12	2	3.5	12	8	1.5	35	0.8	0.015	0.08	3.0	3.6	1.5	1.9	1.0	1.6	0.15	

Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	Pd _{Typ}	R _{min}	R1 _{max}	Package Dimensions (mm)							
										A		B		C		D	
	A	A	V _{DC}	Current A	Time (Sec)	A	W	Ω	Ω	min	max	min	max	min	max		min
SMD1206 Series Positive Thermal Coefficient																	
SMD1206P200TF/16	2	3.5	16	8	1.5	35	0.8	0.015	0.08	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P250TF	2.5	5	6	8	2	35	0.8	0.01	0.06	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P250TF/12	2.5	5	12	8	2	35	0.8	0.01	0.06	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P260TF	2.6	5.2	6	8	2	35	0.8	0.01	0.06	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P300TF	3	6	6	8	4	35	1	0.01	0.05	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P300TF/12	3	6	12	15	2	50	0.8	0.004	0.02	3.0	3.5	1.5	1.9	0.4	1.2	0.15	
SMD1206P350TF	3.5	7	6	10	5	35	1.2	0.005	0.04	3.0	3.5	1.5	1.8	1.0	1.6	0.15	
SMD1206P450TF	4.5	9	6	22.5	2	50	1	0.002	0.012	3.0	3.5	1.5	1.8	0.5	1.4	0.15	
SMD1206P500TF	5	10	6	25	2	50	1	0.002	0.011	3.0	3.6	1.5	1.9	1.0	1.6	0.15	
SMD1206P500TF/12	5	10	12	25	2	50	1	0.002	0.011	3.0	3.6	1.5	1.9	0.7	1.3	0.15	

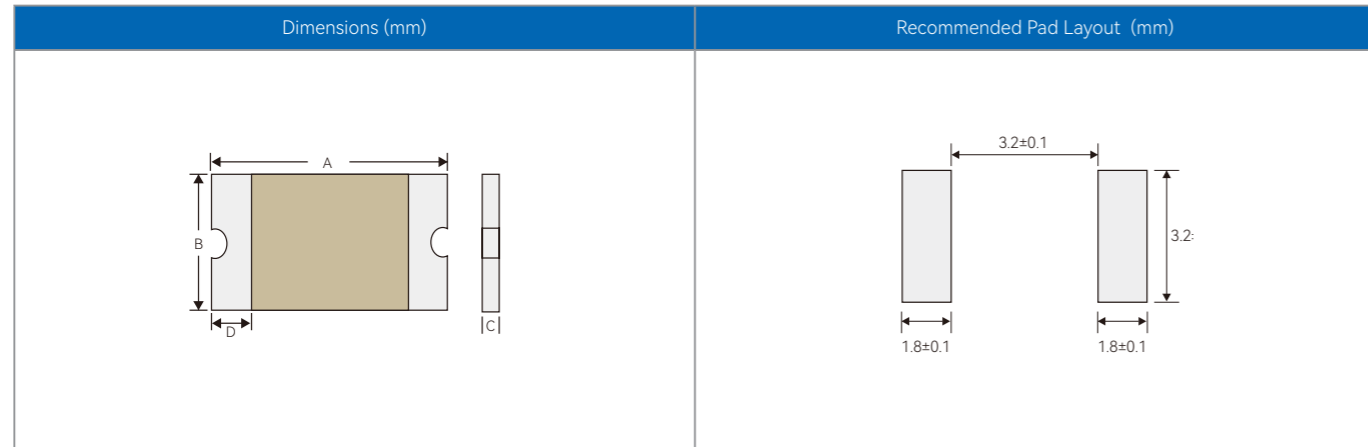


Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	Pd _{Typ}	R _{min}	R1 _{max}	Package Dimensions (mm)							
				Current A	Time (Sec)					A		B		C		D	
	A	A	V _{DC}	A	W	Ω	Ω	min	max	min	max	min	max	min			
SMD1210 Series Positive Thermal Coefficient																	
SMD1210P005TF	0.05	0.15	30	0.25	1.5	30	0.6	2.8	50	3.0	3.5	2.35	2.8	0.6	1.2	0.3	
SMD1210P010TF	0.10	0.3	30	0.50	0.6	30	0.6	0.8	15	3.0	3.5	2.35	2.8	0.6	1.2	0.3	
SMD1210P020TF	0.20	0.40	30	8.00	0.02	30	0.6	0.4	5	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P035TF	0.35	0.75	6	8.00	0.2	30	0.6	0.2	1.3	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P035F/13.2	0.35	0.75	13.2	8.00	0.2	30	0.6	0.2	1.3	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P035TF/16	0.35	0.75	16	8.00	0.2	30	0.6	0.2	1.3	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P050TF	0.50	1.00	13.2	8.00	0.1	30	0.6	0.18	0.9	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P050TF/16	0.50	1.00	16	8.00	0.1	30	0.6	0.18	0.9	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P050TF/24	0.50	1.00	24	8.00	0.1	30	0.6	0.18	0.9	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P075TF	0.75	1.50	6	8.00	0.1	30	0.6	0.07	0.4	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P075TF/16	0.75	1.50	16	8.00	0.1	30	0.6	0.07	0.4	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P110TF	1.10	2.20	6	8.00	0.3	35	0.6	0.05	0.21	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P110TF/16	1.10	2.20	16	8.00	0.3	35	0.6	0.05	0.21	3.0	3.5	2.35	2.8	0.5	1.1	0.3	
SMD1210P150TF	1.50	3.00	6	8.00	0.5	35	0.6	0.03	0.11	3.0	3.5	2.35	2.8	0.5	1.2	0.3	
SMD1210P150TF/12	1.50	3.00	12	8.00	0.5	35	0.6	0.03	0.11	3.0	3.5	2.35	2.8	0.5	1.2	0.3	
SMD1210P150TF/16	1.50	3.00	16	8.00	0.5	35	0.6	0.03	0.11	3.0	3.5	2.35	2.8	0.5	1.2	0.3	
SMD1210P175TF	1.75	3.50	6	8.00	0.6	35	0.8	0.02	0.08	3.0	3.5	2.35	2.8	0.8	1.4	0.3	
SMD1210P200TF	2.00	4.00	6	8.00	1.0	35	0.8	0.015	0.07	3.0	3.5	2.35	2.8	0.8	1.4	0.3	
SMD1210P260TF	2.60	5.20	6	8.00	2.0	35	0.8	0.01	0.06	3.0	3.5	2.35	2.8	1.0	1.6	0.3	

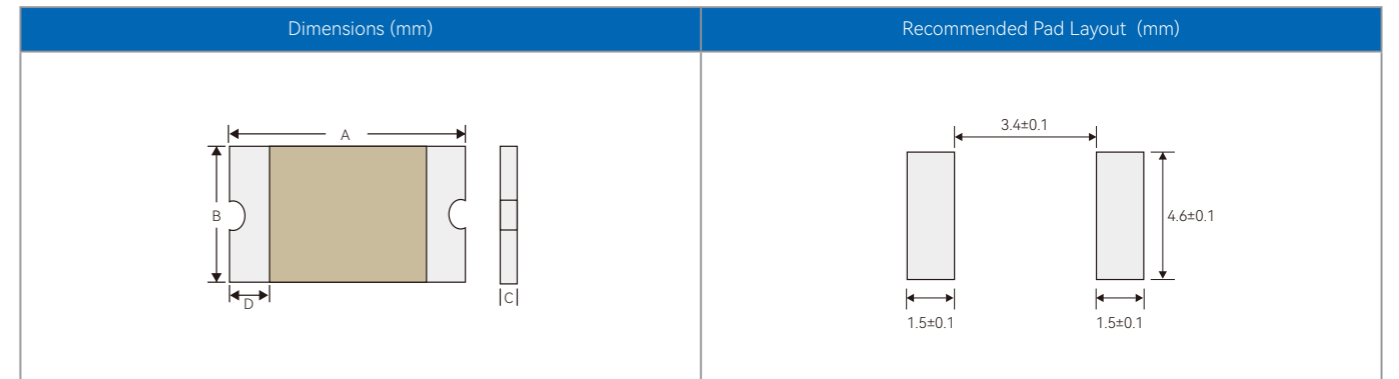
Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	Pd _{Typ}	R _{min}	R1 _{max}	Package Dimensions (mm)							
				Current A	Time (Sec)					A		B		C		D	
	A	A	V _{DC}	A	W	Ω	Ω	min	max	min	max	min	max	min			
SMD1812 Series Positive Thermal Coefficient																	
SMD1812P0035TF	0.035	0.105	60	0.25	1.5	30	0.8	2.4	68	4.37	4.73	3.07	3.41	0.6	1.3	0.3	
SMD1812P010TF	0.1	0.3	30	0.5	1.5	30	0.8	0.75	15	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P010TF/60	0.1	0.3	60	0.5	1.5	30	0.8	0.5	15	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P014TF	0.14	0.34	60	1.5	0.15	30	0.8	0.65	6	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P020TF	0.2	0.4	30	8	0.02	30	0.8	0.35	5	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P020TF/60	0.2	0.4	60	8	0.02	30	0.8	0.35	5	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P030TF	0.3	0.6	30	8	0.1	30	0.8	0.25	3	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P030TF/60	0.3	0.6	60	8	0.1	30	0.8	0.25	3	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P050TF	0.5	1	15	8	0.15	30	0.8	0.15	1	4.37	4.73	3.07	3.41	0.4	1.0	0.3	
SMD1812P050TF/30	0.5	1	30	8	0.15	30	0.8	0.15	1	4.37	4.73	3.07	3.41	0.4	1.0	0.3	
SMD1812P050TF/33	0.5	1	33	8	0.15	30	0.8	0.15	1	4.37	4.73	3.07	3.41	0.4	1.0	0.3	
SMD1812P050TF/60	0.5	1	60	8	0.15	30	0.8	0.15	1.4	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P075TF	0.75	1.5	13.2	8	0.2	30	0.8	0.09	0.45	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P075TF/16	0.75	1.5	16	8	0.2	30	0.8	0.09	0.45	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P075TF/24	0.75	1.5	24	8	0.2	30	0.8	0.09	0.45	4.37	4.73	3.07	3.41	0.6	1.3	0.3	
SMD1812P075TF/33	0.75	1.5	33	8	0.2	30	0.8	0.09	0.45	4.37	4.73	3.07	3.41	0.6	1.3	0.3	
SMD1812P110TF	1.1	2.2	8	8	0.3	35	0.8	0.045	0.25	4.37	4.73	3.07	3.41	0.4	1.0	0.3	
SMD1812P110TF/16	1.1	2.2	16	8	0.3	35	0.8	0.05	0.25	4.37	4.73	3.07	3.41	0.4	1.0	0.3	
SMD1812P110TF/24	1.1	2.2	24	8	0.3	35	0.8	0.05	0.25	4.37	4.73	3.07	3.41	0.6	1.3	0.3	
SMD1812P110TF/33	1.1	2.2	33	8	0.3	35	0.8	0.05	0.25	4.37	4.73	3.07	3.41	0.6	1.3	0.3	
SMD1812P125TF	1.25	2.5	16	8	0.4	35	0.8	0.05	0.14	4.37	4.73	3.07	3.41	0.4	1.0	0.3	
SMD1812P150TF	1.5	3	8	8	0.5	35	0.8	0.04	0.16	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P150TF/16	1.5	3	16	8	0.5	35	0.8	0.04	0.16	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P150TF/24	1.5	3	24	8	0.5	35	0.8	0.04	0.16	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P150TF/33	1.5	3	33	8	0.5	35	0.8	0.04	0.16	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P160TF	1.6	2.8	8	8	1	35	0.8	0.03	0.13	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P200TF	2	4	8	8	2	35	0.8	0.02	0.1	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P200TF/16	2	4	16	8	2	35	0.8	0.02	0.1	4.37	4.73	3.07	3.41	0.5	1.1	0.3	
SMD1812P200TF/24	2	4	24	8	2	35	0.8	0.02	0.1	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P200TF/30	2	4	30	8	2	35	0.8	0.02	0.1	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P260TF	2.6	5	8	8	2.5	35	0.8	0.01	0.05	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P260TF/16	2.6	5	16	8	2.5	35	0.8	0.01	0.05	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P260TF/24	2.6	5	24	8	2.5	35	0.8	0.01	0.05	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P300TF	3	5	8	8	4	35	0.8	0.01	0.04	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P300TF/16	3	5	16	8	4	35	0.8	0.01	0.04	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P350TF	3.5	6	6	10	4	35	2	0.008	0.03	4.37	4.73	3.07	3.41	0.8	1.5	0.3	



Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	Pd _{Typ}	R _{min}	R1 _{max}	Package Dimensions (mm)							
										A		B		C		D	
	A	A	V _{DC}	Current A	Time (Sec)	A	W	Ω	Ω	min	max	min	max	min	max	min	
SMD1812 Series Positive Thermal Coefficient																	
SMD1812P350TF/16	3.5	6	16	10	4	35	2	0.008	0.03	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P400TF	4	7	6	10	4	35	2	0.005	0.025	4.37	4.73	3.07	3.41	0.8	1.5	0.3	
SMD1812P750TF	7.5	15	6	37.5	2	50	2	0.001	0.006	4.37	4.73	3.07	3.41	0.6	1.6	0.3	
SMD1812P900TF	9	18	6	45	2	50	2.2	0.0005	0.005	4.37	4.73	3.07	3.41	0.6	1.6	0.3	



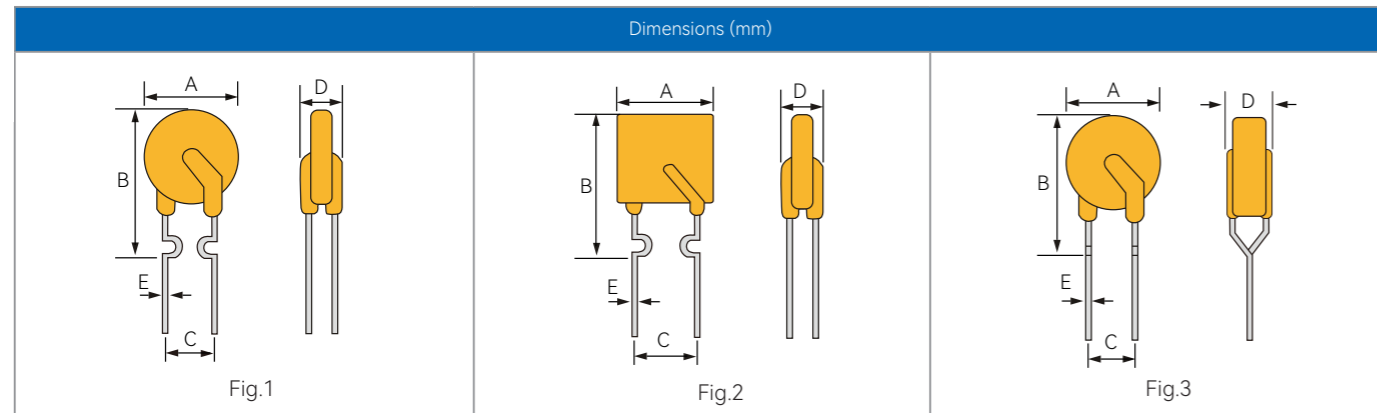
Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	Pd _{Typ}	R _{min}	R1 _{max}	Package Dimensions (mm)							
										A		B		C		D	
	A	A	V _{DC}	Current A	Time (Sec)	A	W	Ω	Ω	min	max	min	max	min	max	min	
SMD2018 Series Positive Thermal Coefficient																	
SMD2018P030TF	0.3	0.6	60	1.5	3	10	0.9	0.5	2.3	4.72	5.44	4.22	4.93	0.5	1.2	0.3	
SMD2018P050TF	0.55	1.2	60	2.5	3	10	1.0	0.2	1	4.72	5.44	4.22	4.93	0.5	1.2	0.3	
SMD2018P075TF	0.75	1.5	60	8	0.3	10	1.1	0.11	0.63	4.72	5.44	4.22	4.93	0.5	1.2	0.3	
SMD2018P100TF	1.1	2.2	15	8	0.4	35	1.1	0.06	0.36	4.72	5.44	4.22	4.93	0.5	1.2	0.3	
SMD2018P100TF/33	1.1	2.2	33	8	0.4	35	1.1	0.06	0.36	4.72	5.44	4.22	4.93	0.5	1.2	0.3	
SMD2018P150TF	1.5	3	15	8	0.8	35	1.1	0.05	0.17	4.72	5.44	4.22	4.93	0.5	1.2	0.3	
SMD2018P200TF	2	4	10	8	2.4	35	1.1	0.03	0.1	4.72	5.44	4.22	4.93	0.5	1.2	0.3	
SMD2018P200TF/15	2	4	15	8	2.4	35	1.1	0.03	0.1	4.72	5.44	4.22	4.93	0.5	1.2	0.3	



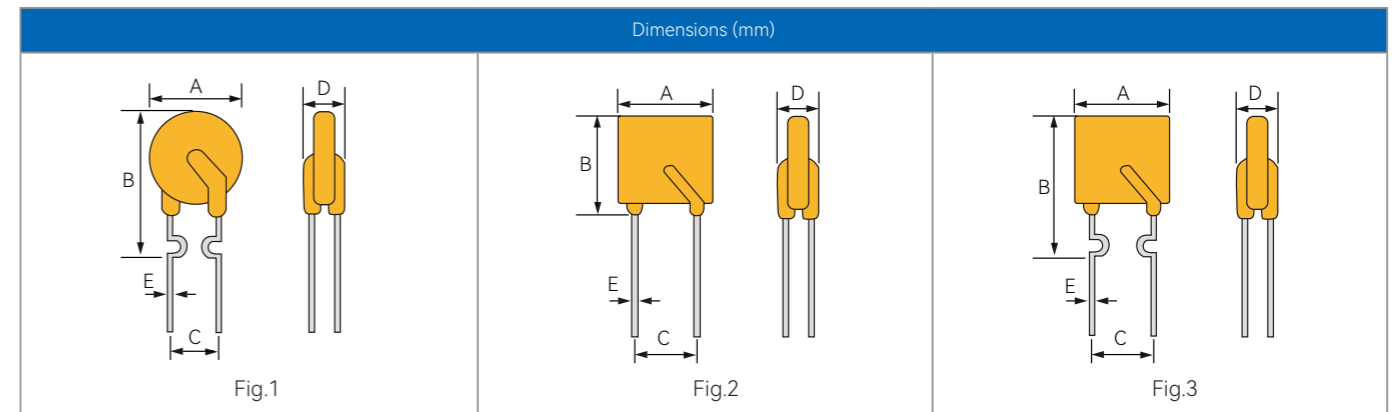
Type Number	I _{hold}	I _{trip}	V _{max}	Maximum Time To Trip		I _{max}	Pd _{Typ}	R _{min}	R1 _{max}	Package Dimensions (mm)						
				Current A	Time (Sec)					A		B		C		D
	A	A	V _{DC}	A	W	Ω	Ω	min	max	min	max	min	max	min		
SMD2920 Series Positive Thermal Coefficient																
SMD2920P030TF	0.3	0.6	60	1.5	3	10	1.5	0.6	4.8	6.73	7.98	4.8	5.44	0.6	1.2	0.3
SMD2920P050TF	0.5	1	60	2.5	4	10	1.5	0.18	1.4	6.73	7.98	4.8	5.44	0.8	1.6	0.3
SMD2920P075TF	0.75	1.5	33	8	0.3	40	1.5	0.1	1	6.73	7.98	4.8	5.44	0.7	1.3	0.3
SMD2920P075TF/60	0.75	1.5	60	8	0.3	40	1.5	0.1	1	6.73	7.98	4.8	5.44	0.8	1.6	0.3
SMD2920P100TF	1.1	2.2	33	8	0.5	40	1.5	0.065	0.41	6.73	7.98	4.8	5.44	0.4	1.0	0.3
SMD2920P100TF/60	1.1	2.2	60	8	0.5	40	1.5	0.065	0.41	6.73	7.98	4.8	5.44	1.0	2.1	0.3
SMD2920P125TF	1.25	2.5	33	8	2	40	1.5	0.05	0.25	6.73	7.98	4.8	5.44	0.4	1.0	0.3
SMD2920P150TF	1.5	3	33	8	2	40	1.5	0.035	0.23	6.73	7.98	4.8	5.44	0.5	1.3	0.3
SMD2920P185TF	1.85	3.7	33	8	2.5	40	1.5	0.03	0.15	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P200TF	2	4	16	8	4.5	40	1.5	0.02	0.12	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P200TF/24	2	4	24	8	4.5	40	1.5	0.02	0.12	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P200TF/33	2	4	33	8	4.5	40	1.5	0.02	0.12	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P250TF	2.5	5	16	8	16	40	1.5	0.02	0.085	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P250TF/24	2.5	5	24	8	16	40	1.5	0.02	0.085	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P250TF/30	2.5	5	30	8	16	40	1.5	0.02	0.085	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P260TF	2.6	5.2	6	8	10	40	1.5	0.014	0.075	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P260TF/16	2.6	5.2	16	8	10	40	1.5	0.014	0.075	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P260TF/33	2.6	5.2	33	8	10	40	1.5	0.014	0.075	6.73	7.98	4.8	5.44	0.7	1.4	0.3
SMD2920P300TF	3	6	6	8	20	40	1.5	0.012	0.048	6.73	7.98	4.8	5.44	0.6	1.2	0.3
SMD2920P300TF/16	3	6	16	8	20	40	1.5	0.012	0.048	6.73	7.98	4.8	5.44	0.6	1.2	0.3
SMD2920P300TF/24	3	6	24	8	20	40	1.5	0.012	0.048	6.73	7.98	4.8	5.44	0.6	1.2	0.3
SMD2920P300TF/33	3	6	33	8	20	40	1.5	0.012	0.048	6.73	7.98	4.8	5.44	0.6	1.2	0.3
SMD2920P400TF	4	8	6	20	4	40	1.5	0.008	0.04	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P400TF/16	4	8	16	20	4	40	1.5	0.008	0.04	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P400TF/24	4	8	24	20	4	40	1.5	0.008	0.04	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P500TF	5	10	6	25	5	40	1.5	0.005	0.031	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P500TF/12	5	10	12	25	5	40	1.5	0.005	0.031	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P500TF/16	5	10	16	25	5	40	1.5	0.005	0.031	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P600TF	6	12	6	25	6	40	1.5	0.004	0.02	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P600TF/12	6	12	12	25	6	40	1.5	0.004	0.02	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P600TF/16	6	12	16	25	6	40	1.5	0.004	0.02	6.73	7.98	4.8	5.44	0.8	1.6	0.3
SMD2920P700TF	7	14	6	25	6	40	1.5	0.0025	0.01	6.73	7.98	4.8	5.44	1.0	1.6	0.3
SMD2920P700TF/12	7	14	12	25	6	40	1.5	0.0025	0.01	6.73	7.98	4.8	5.44	1.0	1.6	0.3



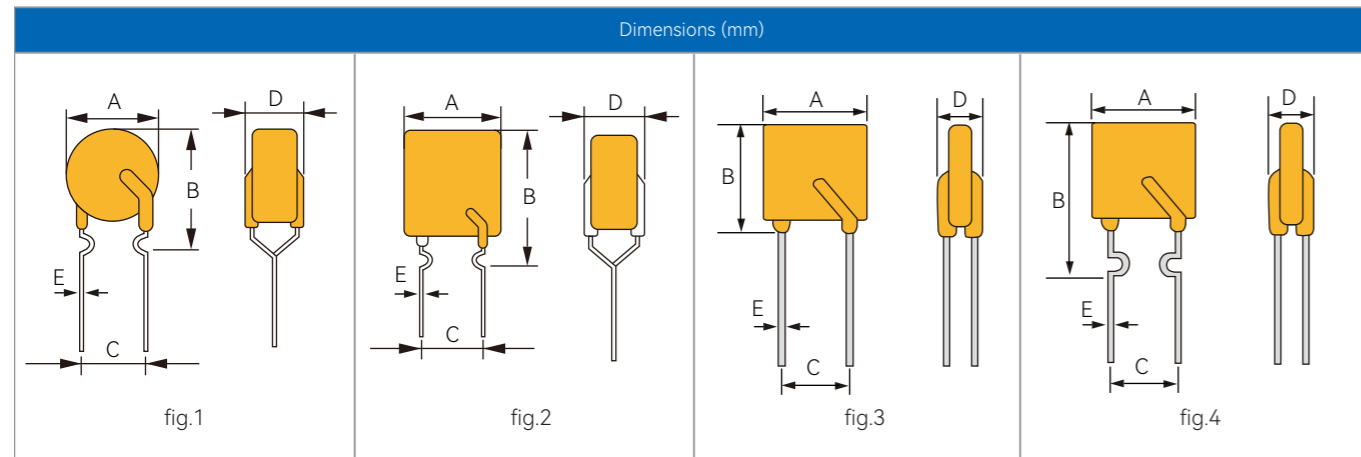
Type Number	I_{hold}	I_T	V_{max}	Time-to-Trip		I_{max}	Pd_{typ}	R_{imin}	$R1_{max}$	Package Dimensions (mm)					Circuit Figure
	A	A	V	Current A	Time S	A	W	Ω	Ω	A (max)	B (max)	C (typ)	D (max)	E (typ)	
RL6 Series Positive Thermal Coefficient															
RL06-030	0.3	0.6	6	1.5	1	40	0.3	0.3	0.8	4.5	9.0	5.1	3.1	0.5	Fig.1
RL06-050	0.5	1	6	2.5	1.1	40	0.4	0.2	0.76	4.5	9.0	5.1	3	0.5	Fig.1
RL06-075	0.75	1.5	6	3.75	6	40	0.3	0.11	0.65	7.4	12.7	5.1	3.1	0.5	Fig.1
RL06-090	0.9	1.8	6	4.5	1.2	40	0.6	0.07	0.40	7.4	13.4	5.1	3	0.5	Fig.1
RL06-110	1.1	2.2	6	5.5	2.3	40	0.7	0.05	0.36	7.8	14.2	5.1	3	0.5	Fig.1
RL06-120	1.2	2.4	6	6	0.5	40	0.6	0.065	0.30	7.4	13.5	5.1	3.1	0.5	Fig.1
RL06-135	1.35	2.7	6	6.75	4.5	40	0.8	0.04	0.25	8.9	15.2	5.1	3	0.5	Fig.2
RL06-155	1.55	3.2	6	7.75	0.5	40	0.6	0.043	0.21	7.4	13.5	5.1	3.1	0.5	Fig.1
RL06-160	1.6	3.7	6	8	9	40	0.9	0.03	0.20	8.9	16.0	5.1	3	0.5	Fig.3
RL06-185	1.85	4	6	9.25	10	40	1	0.03	0.20	10.2	16.0	5.1	3	0.5	Fig.2
RL06-250	2.5	5	6	12.5	10	40	1.2	0.02	0.15	11.4	18.3	5.1	3	0.5	Fig.2



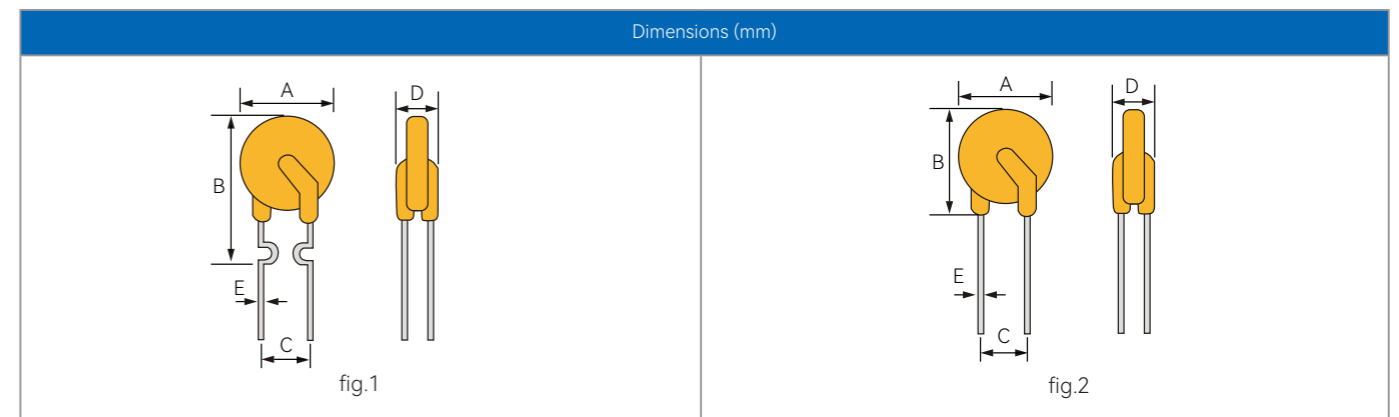
Type Number	I_{hold}	I_{trip}	V_{max}	Time-to-Trip		I_{max}	Pd_{typ}	R_{min}	$R1_{max}$	Package Dimensions (mm)					Circuit Figure
	A	A	V_{DC}	Current (A)	Time (Sec)	A	W	Ω	Ω	A (max)	B (max)	C (typ)	D (max)	E (typ)	
RL16 Series Positive Thermal Coefficient															
RL16-030	0.3	0.6	16	1.5	1	40	0.3	0.3	1.3	4.5	9	5.1	3.1	0.5	Fig.1
RL16-050	0.5	1	16	2.5	1.1	40	0.4	0.2	0.65	5.5	12	5.1	3	0.5	Fig.1
RL16-075	0.75	1.5	16	3.75	4.8	40	0.3	0.1	0.28	6.9	11.4	5.1	3	0.5	Fig.1
RL16-090	0.9	1.8	16	4.5	1.2	40	0.6	0.09	0.25	7.4	13.5	5.1	3	0.5	Fig.1
RL16-100	1	2	16	5	5	40	1	0.07	0.25	7.4	12.2	5.1	3	0.5	Fig.1
RL16-110	1.1	2.2	16	5.5	2.3	40	0.7	0.08	0.24	7.4	14.2	5.1	3	0.6	Fig.1
RL16-135	1.35	2.7	16	6.75	4.5	40	0.8	0.04	0.25	8.9	13.5	5.1	3	0.6	Fig.3
RL16-160	1.6	3.2	16	8	9	40	0.9	0.03	0.2	8.9	16.7	5.1	3	0.6	Fig.1
RL16-200	2	4	16	10	9	40	0.9	0.018	0.09	8.9	13.5	5.1	3	0.6	Fig.3
RL16-300	3	6	16	15	2	40	2.3	0.02	0.11	9	12	5.1	3	0.8	Fig.2
RL16-400	4	8	16	20	3.5	40	2.4	0.02	0.08	10	13	5.1	3	0.8	Fig.2
RL16-500	5	10	16	25	3.6	40	2.6	0.014	0.044	10.7	17.5	5.1	3	0.8	Fig.2
RL16-600	6	12	16	30	5.8	40	2.8	0.009	0.031	13.5	17.5	5.1	3	0.8	Fig.2
RL16-700	7	14	16	35	8	40	3	0.006	0.022	13.5	23	5.1	3	0.8	Fig.2
RL16-800	8	16	16	40	9	40	3	0.005	0.021	13.5	23	5.1	3	0.8	Fig.2
RL16-900	9	18	16	45	12	40	3.3	0.004	0.018	15	24	5.1	3	0.8	Fig.2
RL16-1000	10	20	16	50	12.5	40	3.6	0.003	0.015	18	26	5.1	3	0.8	Fig.2
RL16-1100	11	22	16	55	13.5	40	3.7	0.003	0.013	18.2	26	5.1	3	0.8	Fig.2
RL16-1200	12	24	16	60	16	40	4.2	0.002	0.012	22.5	28	10.2	3.5	0.8	Fig.2
RL16-1300	13	26	16	65	18	40	4.6	0.002	0.012	26.5	30	10.2	3	0.8	Fig.2
RL16-1400	14	28	16	70	20	40	4.6	0.002	0.011	28.6	30	10.2	3.5	0.8	Fig.2
RL16-1500	15	30	16	75	18	40	4.6	0.002	0.0075	28.6	31.5	10.2	3	0.8	Fig.2



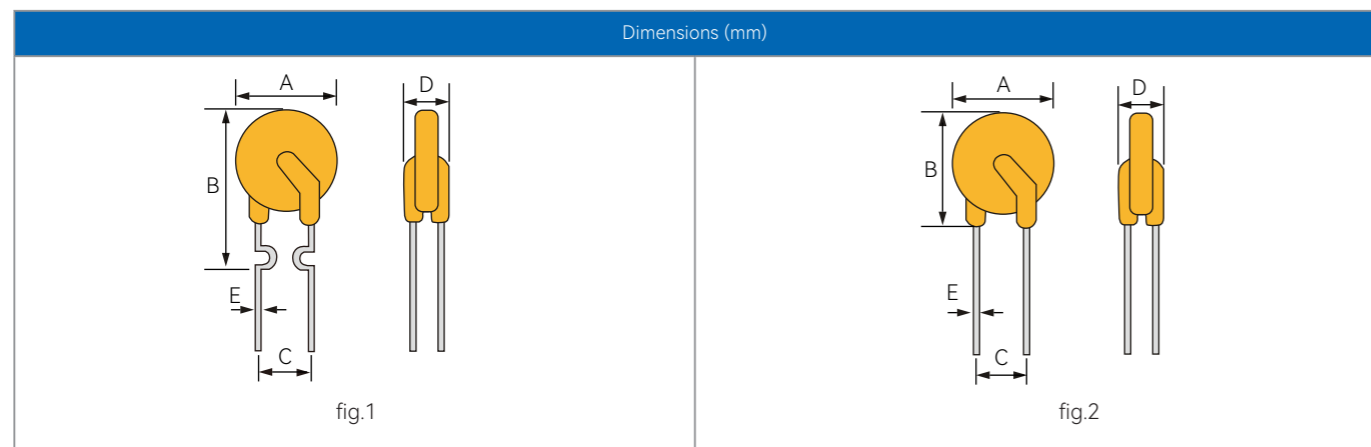
Type Number	I_{hold}	I_T	V_{max}	Time-to-Trip		I_{max}	P_{dtyp}	Resistance(Ω)		Package Dimensions (mm)					Circuit Figure
	A	A	V	Current (A)	Time (Sec)	A	W	R_{lmin}	R_{lmax}	A (max)	B (max)	C (typ)	D (max)	E (typ)	
RL30 Series Positive Thermal Coefficient															
RL30-050	0.5	1	30	2.5	4.1	40	0.5	0.25	1.2	8	14	5.1	3.1	0.5	Fig.1
RL30-070	0.7	1.4	30	3.5	4.3	40	0.6	0.14	0.35	7.4	14.2	5.1	3	0.5	Fig.2
RL30-075	0.75	1.5	30	3.75	5.2	40	0.6	0.12	0.42	7.4	14.2	5.1	3	0.5	Fig.1
RL30-090	0.9	1.8	30	4.5	5.9	40	0.6	0.07	0.3	7.4	18.5	5.1	3	0.5	Fig.2
RL30-110	1.1	2.2	30	5.5	6.6	40	0.7	0.05	0.26	7.4	18.5	5.1	3	0.5	Fig.2
RL30-120	1.2	2.4	30	6	8	40	0.8	0.08	0.2	7.4	18.5	5.1	3	0.5	Fig.4
RL30-135	1.35	2.7	30	6.75	7.3	40	0.8	0.04	0.22	9.2	17.6	5.1	3	0.6	Fig.2
RL30-160	1.6	3.2	30	8	8	40	0.9	0.03	0.18	9.2	20.2	5.1	3	0.6	Fig.2
RL30-185	1.85	3.7	30	9.25	8.7	40	1	0.03	0.15	10.2	20.2	5.1	3	0.6	Fig.2
RL30-200	2	4	30	10	12	40	1.5	0.03	0.09	10.2	20.2	5.1	3	0.6	Fig.2
RL30-250	2.5	5	30	12.5	10.3	40	1.2	0.02	0.1	13.2	22.4	5.1	3	0.6	Fig.2
RL30-300	3	6	30	15	10.8	40	2	0.02	0.1	13.2	20.4	5.1	3	0.8	Fig.3
RL30-400	4	8	30	20	12.7	40	2.5	0.01	0.09	14	23.7	5.1	3	0.8	Fig.3
RL30-500	5	10	30	25	14.5	40	3	0.01	0.08	17.7	21.5	10.2	3	0.8	Fig.3
RL30-600	6	12	30	30	16	40	3.5	0.005	0.06	17.2	27	10.2	3	0.8	Fig.3
RL30-700	7	14	30	35	17.5	40	3.8	0.005	0.05	19.1	27	10.2	3	0.8	Fig.3
RL30-800	8	16	30	40	18.8	40	4	0.005	0.18	23.5	29.2	10.2	3	0.8	Fig.3
RL30-900	9	18	30	40	20	40	4.2	0.005	0.025	25.5	30	10.2	3	0.8	Fig.3



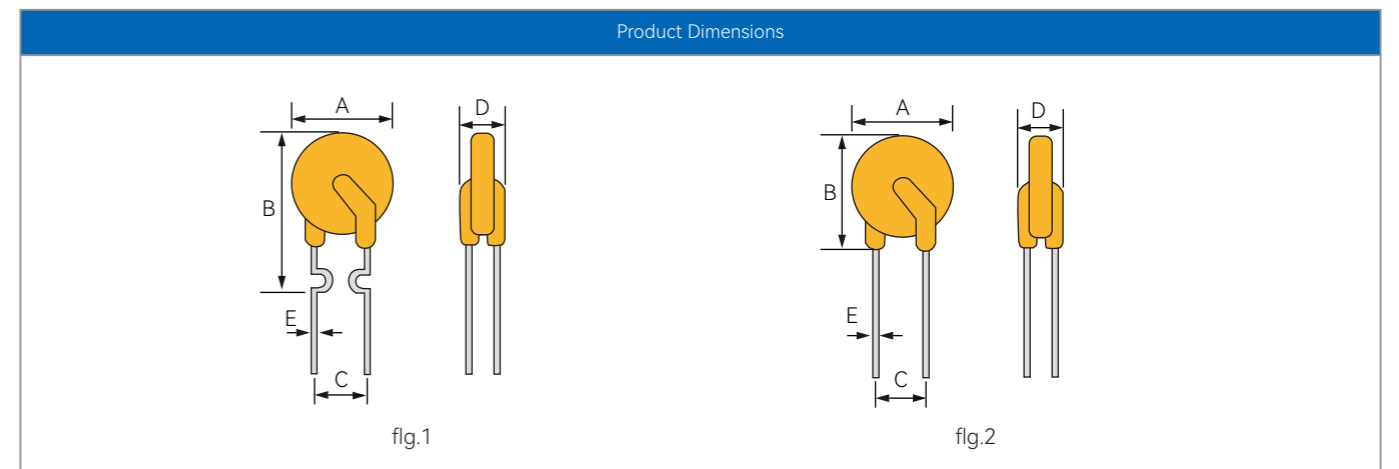
Type Number	I_{hold}	I_{trip}	V_{max}	Time-to-Trip		I_{max}	P_{dtyp}	R_{lmin}	R_{lmax}	Package Dimensions (mm)					Circuit Figure
	A	A	VDC	Current (A)	Time (Sec)	A	W	Ω	Ω	A (max)	B (max)	C (typ)	D (max)	E (typ)	
RL60 Series Positive Thermal Coefficient															
RL60-0035	0.035	0.07	60	0.175	8	40	0.5	22	65	7.4	11.5	5.1	3.1	0.5	Fig.2
RL60-005	0.05	0.1	60	0.25	5	40	0.3	7.3	40	7.4	11.1	5.1	3.1	0.5	Fig.2
RL60-010	0.1	0.2	60	0.5	8	40	0.51	2.5	12	7.4	11.6	5.1	3.1	0.5	Fig.1
RL60-017	0.17	0.34	60	0.85	5	40	0.6	2	8	7.4	12.7	5.1	3.1	0.5	Fig.1
RL60-020	0.2	0.4	60	1.0	3.6	40	0.52	1.5	4.49	7.4	12.7	5.1	3.1	0.5	Fig.1
RL60-025	0.25	0.5	60	1.25	3.2	40	0.52	1	3	7.4	12.7	5.1	3.1	0.5	Fig.1
RL60-030	0.3	0.6	60	1.5	3	40	0.59	0.76	2.2	7.6	13.4	5.1	3.1	0.5	Fig.1
RL60-040	0.4	0.8	60	2.0	3.8	40	0.66	0.45	1.4	7.8	16.2	5.1	3.1	0.5	Fig.1
RL60-050	0.5	1.0	60	2.5	4	40	0.8	0.4	1.2	7.9	16.2	5.1	3.1	0.5	Fig.1
RL60-065	0.65	1.3	60	3.25	5.3	40	0.9	0.27	0.74	9.7	17.8	5.1	3.1	0.6	Fig.1
RL60-075	0.75	1.5	60	3.75	6.3	40	0.95	0.18	0.62	10.7	18.4	5.1	3.1	0.6	Fig.1
RL60-090	0.9	1.8	60	4.5	7.2	40	1.0	0.14	0.49	11.7	18.4	5.1	3	0.6	Fig.1
RL60-110	1.1	2.2	60	5.5	8.2	40	1.51	0.14	0.4	13	18	5.1	3.1	0.8	Fig.2
RL60-135	1.35	2.7	60	6.75	9.6	40	1.71	0.12	0.32	14.5	19.6	5.1	3.1	0.8	Fig.2
RL60-160	1.6	3.2	60	8.0	11.4	40	1.98	0.09	0.24	16.3	21.3	5.1	3.1	0.8	Fig.2
RL60-185	1.85	3.7	60	9.25	12.6	40	2.1	0.08	0.21	17.8	22.9	5.1	3.1	0.8	Fig.2
RL60-200	2.0	4.0	60	10.0	14.6	40	2.5	0.05	0.21	21.3	23.5	10.2	3.1	0.8	Fig.2
RL60-250	2.5	5.0	60	12.5	15.6	40	2.5	0.05	0.15	21.3	26.4	10.2	3.1	0.8	Fig.2
RL60-300	3.0	6.0	60	15.0	19.8	40	2.8	0.04	0.12	24.9	28.6	10.2	3.1	0.8	Fig.2
RL60-375	3.75	7.5	60	18.75	24	40	3.2	0.03	0.1	28.5	33.5	10.2	3.1	0.8	Fig.2
RL60-500	5.0	10	60	25.0	24	40	3.2	0.02	0.1	28.5	33.5	10.2	3.1	0.8	Fig.2



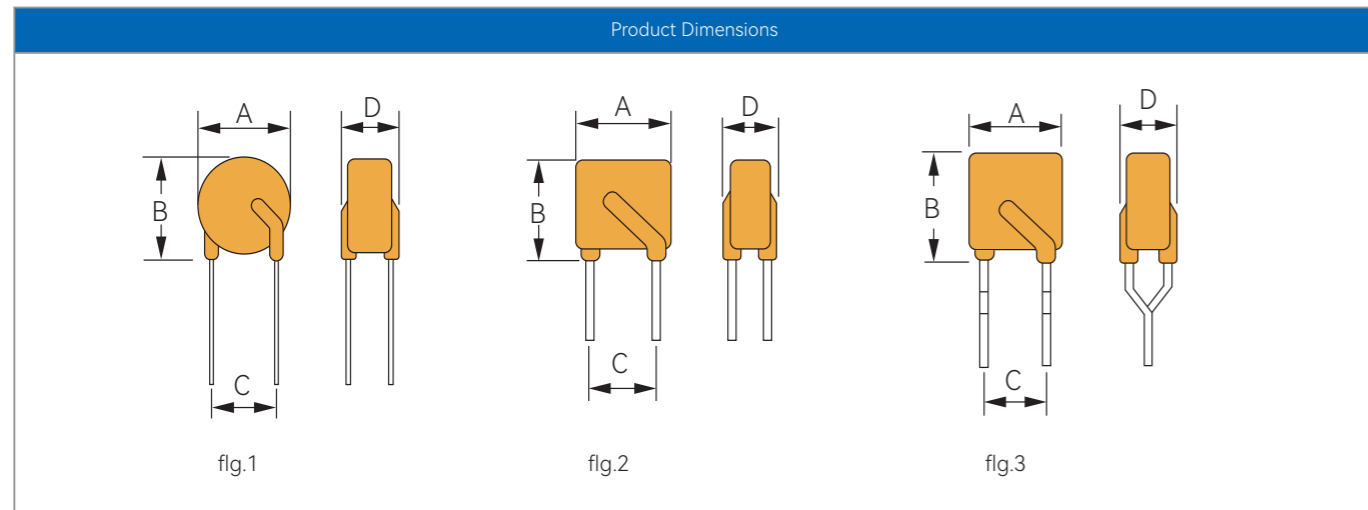
Model	I_{hold}	I_{trip}	V_{max}	Max Time to Trip		I_{max}	Pd_{typ}	Resistance(Ω)		Package Dimensions(mm)					
	A	A	V _{DC}	Current (A)	Time (Sec)	A	W	R _{i_min}	R _{1_max}	A(max)	B(max)	C(typ)	D(max)	Lead Φ (typ)	Circuit Figure
RL72 Positive Thermal Coefficient															
RL72-020	0.2	0.4	72	1.0	3.6	40	0.52	1.5	4.49	7.4	12.7	5.1	3.1	0.5	Fig.1
RL72-025	0.25	0.5	72	1.25	3.2	40	0.52	1.0	3.0	7.4	12.7	5.1	3.1	0.5	Fig.1
RL72-030	0.3	0.6	72	1.5	3.0	40	0.59	0.76	2.2	7.4	13	5.1	3.1	0.5	Fig.1
RL72-040	0.4	0.8	72	2.0	3.8	40	0.66	0.45	1.4	7.8	16.2	5.1	3.1	0.5	Fig.1
RL72-050	0.5	1.0	72	2.5	4.0	40	0.8	0.4	1.2	7.9	16.2	5.1	3.1	0.5	Fig.1
RL72-065	0.65	1.3	72	3.25	5.3	40	0.9	0.27	0.74	9.7	17.8	5.1	3.1	0.6	Fig.1
RL72-075	0.75	1.5	72	3.75	6.3	40	0.95	0.18	0.62	10.4	18.4	5.1	3.1	0.6	Fig.1
RL72-090	0.9	1.8	72	4.5	7.2	40	1.0	0.14	0.49	11.7	18.4	5.1	3.1	0.6	Fig.1
RL72-110	1.1	2.2	72	5.5	8.2	40	1.51	0.14	0.4	13	18	5.1	3.1	0.8	Fig.2
RL72-135	1.35	2.7	72	6.75	9.6	40	1.71	0.12	0.32	14.5	19.6	5.1	3.1	0.8	Fig.2
RL72-160	1.6	3.2	72	8.0	11.4	40	1.98	0.09	0.24	16.3	21.3	5.1	3.1	0.8	Fig.2
RL72-185	1.85	3.7	72	9.25	12.6	40	2.1	0.08	0.21	17.8	22.9	5.1	3.1	0.8	Fig.2
RL72-250	2.5	5.0	72	12.5	15.6	40	2.5	0.05	0.15	21.3	26.4	10.2	3.1	0.8	Fig.2
RL72-300	3.0	6.0	72	15.0	19.8	40	2.8	0.04	0.12	23.9	28.6	10.2	3.1	0.8	Fig.2
RL72-375	3.75	7.5	72	18.75	24.0	40	3.2	0.03	0.1	28.5	33.5	10.2	3.1	0.8	Fig.2
RL72-500	5.0	10	72	25	23	40	3.2	0.015	0.08	29.5	32.5	10.7	3.1	0.8	Fig.2



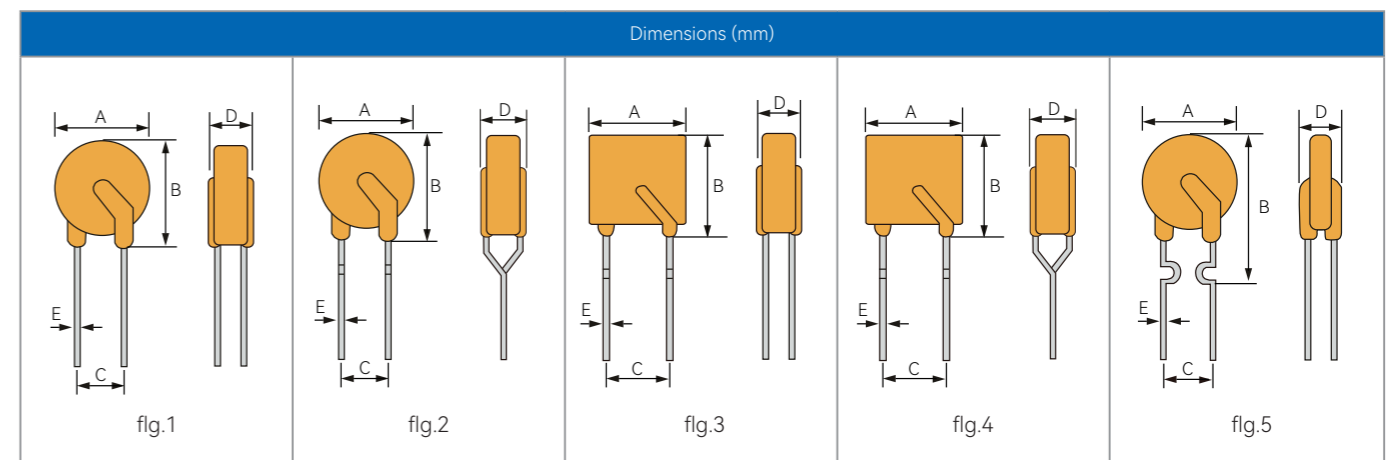
Model	I_{hold}	I_{trip}	V_{max}	Max Time to Trip		I_{max}	Pd_{typ}	Resistance(Ω)		Package Dimensions(mm)					
	A	A	V _{DC}	Current (A)	Time (Sec)	A	W	R _{i_min}	R _{1_max}	A(max)	B(max)	C(typ)	D(max)	Lead Φ (typ)	Circuit Figure
RL130 Series Positive Thermal Coefficient															
RL130-010	0.10	0.20	130	0.5	6.0	3.0	0.8	2.5	9.0	7.4	12.7	5.1	3.8	0.6	Fig.1
RL130-015	0.15	0.30	130	0.75	5.5	3.0	0.8	2.5	7.5	7.4	13	5.1	3.8	0.6	Fig.1
RL130-017	0.17	0.34	130	0.85	5.2	3.0	0.8	1.5	7.0	7.4	13.5	5.1	3.8	0.6	Fig.1
RL130-020	0.20	0.40	130	1.0	5.0	3.0	0.8	1.9	4.0	7.6	13.5	5.1	3.8	0.6	Fig.1
RL130-025	0.25	0.50	130	1.25	4.8	3.0	1.0	1.45	3.5	7.6	13.5	5.1	3.8	0.6	Fig.1
RL130-030	0.30	0.60	130	1.5	4.5	3.0	1.0	1.0	3.0	8.0	14	5.1	3.8	0.6	Fig.1
RL130-040	0.40	0.80	130	2.0	4.5	3.0	1.0	0.75	2.0	9.4	15	5.1	3.8	0.6	Fig.1
RL130-050	0.50	1.0	130	2.5	5.0	3.0	1.0	0.5	1.6	10.2	15.2	5.1	3.8	0.6	Fig.1
RL130-065	0.65	1.3	130	3.25	5.2	10.0	1.0	0.45	1.0	12.8	18	5.1	3.8	0.6	Fig.1
RL130-075	0.75	1.5	130	3.75	5.5	10.0	1.0	0.4	0.9	12.8	18	5.1	3.8	0.6	Fig.1
RL130-090	0.90	1.8	130	4.5	5.8	10.0	1.5	0.3	0.7	14.5	19.6	5.1	3.8	0.8	Fig.2
RL130-110	1.10	2.2	130	5.5	6.3	10.0	1.8	0.2	0.65	16.3	21.3	5.1	3.8	0.8	Fig.2
RL130-135	1.35	2.7	130	6.75	7.5	10.0	1.8	0.15	0.6	17.0	22	5.1	3.8	0.8	Fig.2
RL130-160	1.60	3.2	130	8.0	8	10.0	2.0	0.1	0.5	20	25	5.1	3.8	0.8	Fig.2
RL130-185	1.85	3.7	130	9.25	9	10.0	2.0	0.1	0.4	22	23	5.1	3.8	0.8	Fig.2
RL130-200	2.00	4.0	130	10.0	10	10.0	2.2	0.1	0.3	25	27	10.2	3.8	0.8	Fig.2
RL130-250	2.50	5.0	130	12.5	12	10.0	2.5	0.05	0.25	27	32	10.2	3.8	0.8	Fig.2



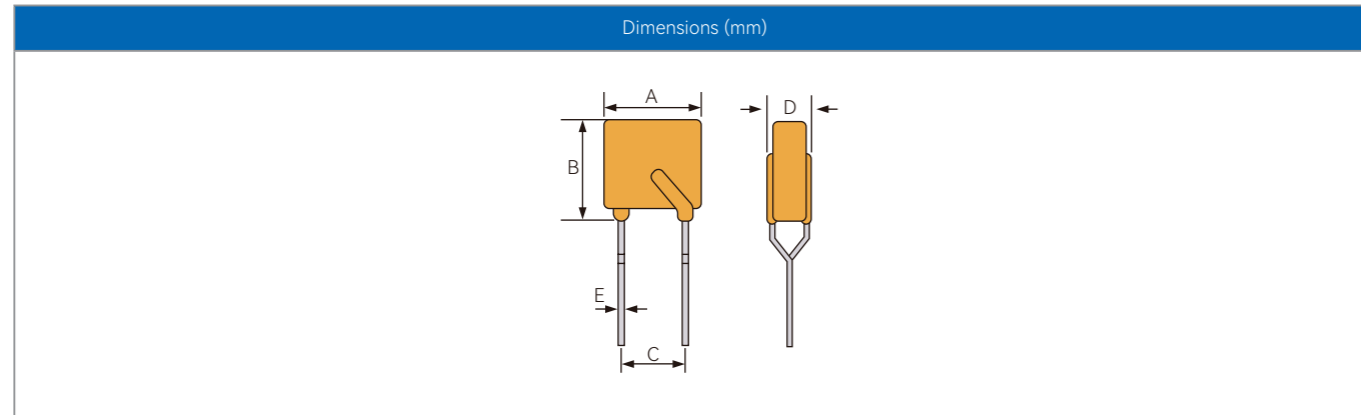
Model	I_{hold}	I_{trip}	V_{max}	Max Time to Trip		I_{max}	P_{dtyp}	Resistance(Ω)		Package Dimensions(mm)					Circuit Figure
	A	A	V_{AC}	Current (A)	Time (Sec)	A	W	$R_{i_{min}}$	$R_{1_{max}}$	A(max)	B(max)	C(typ)	D(max)	Lead Φ (typ)	
RLVR240 Series Positive Thermal Coefficient															
RLVR240-005	0.05	0.12	240	0.25	15	3	1.0	18.0	54.4	8.3	11.7	5.1	4.1	0.5	Fig.1
RLVR240-008	0.08	0.19	240	0.4	15	3	1.0	7.4	20.4	8.3	11.7	5.1	4.1	0.5	Fig.1
RLVR240-012	0.12	0.3	240	0.6	15	3	1.0	3.0	11.9	8.3	11.7	5.1	4.1	0.5	Fig.1
RLVR240-016	0.16	0.37	240	0.8	15	3	1.5	2.5	7.65	9.9	15.5	5.1	4.1	0.6	Fig.1
RLVR240-025	0.25	0.56	240	1.25	18.5	3	1.5	1.3	3.57	10.5	18.5	5.1	4.1	0.6	Fig.3
RLVR240-033	0.33	0.74	240	1.65	21	3	2.0	1.2	3.4	13.5	19	5.1	4.4	0.8	Fig.2
RLVR240-040	0.4	0.9	240	2.0	24	5	2.0	0.81	2.55	11.5	20.9	5.1	4.4	0.8	Fig.2
RLVR240-055	0.55	1.25	240	2.75	26	5	3.5	0.45	1.1	15	23	5.1	4.4	0.8	Fig.2
RLVR240-075	0.75	1.5	240	3.75	14	5	3.0	0.4	1.02	13	23	5.1	4.4	0.8	Fig.2
RLVR240-100	1.0	2.0	240	5.0	13.6	10	3.5	0.2	0.5	14.5	19	10.2	4.4	0.8	Fig.1
RLVR240-125	1.25	2.5	240	6.25	18	10	4.0	0.12	0.27	15	23	5.1	4.4	0.8	Fig.2
RLVR240-135	1.35	2.7	240	6.75	20	10	4.0	0.1	0.23	15	23	5.1	4.4	0.8	Fig.2
RLVR240-200	2.0	4.2	240	10.0	36	10	4.5	0.089	0.2	20.5	31.8	10.2	4.4	0.8	Fig.2



Type Number	I_{hold}	I_{trip}	V_{max}	Time-to-Trip		I_{max}	P_{dtyp}	$R_{i_{min}}$	$R_{1_{max}}$	Package Dimensions (mm)					Circuit Figure
	A	A	VDC	Current (A)	Time (Sec)	A	W	Ω	Ω	A (max)	B (max)	C (typ)	D (max)	E (typ)	
RL250 Series Positive Thermal Coefficient															
RL250-020	0.02	0.04	250	0.5	0.5	3	1.0	50	160	7.4	12.7	5.1	4.5	0.6	Fig.2
RL250-030	0.03	0.06	250	0.5	0.5	3	1.0	40	180	7.4	12.7	5.1	4.5	0.6	Fig.2
RL250-040	0.04	0.08	250	0.5	2	3	1.0	27	100	7.4	12.7	5.1	4.5	0.6	Fig.2
RL250-050	0.05	0.10	250	0.5	1.5	3	1.0	20	90	7.4	12.7	5.1	4.5	0.6	Fig.2
RL250-060	0.06	0.12	250	0.5	2	3	1.0	20	90	7.4	12.7	5.1	4.5	0.6	Fig.2
RL250-080	0.08	0.16	250	1	05	3	1.0	12	33	7.4	12.7	5.1	4.5	0.6	Fig.2
RL250-090	0.09	0.18	250	1	0.8	3	1.0	10	33	7.4	12.7	5.1	4.5	0.6	Fig.2
RL250-100	0.10	0.2	250	1	1.0	3	1.0	10	31	7.0	9.3	5.1	4.5	0.6	Fig.1
RL250-110	0.11	0.22	250	1	2.0	3	1.0	6	18	7.0	12.6	5.1	4.5	0.6	Fig.4
RL250-120	0.12	0.24	250	1	2.0	3	1.0	5	18	7.1	12.6	5.1	4.5	0.6	Fig.4
RL250-145	0.145	0.29	250	1	5	3	1.0	3	14	7.1	12.6	5.1	4.5	0.6	Fig.4
RL250-180	0.18	0.5	250	3	3	3	1.0	0.8	6	10.2	14.5	5.1	4.5	0.6	Fig.2
RL250-200	0.2	0.4	250	3	5	5	1.5	1.5	9	12	17	5.1	4.5	0.6	Fig.2
RL250-300	0.3	0.6	250	3	6	5	1.5	1.0	9	12	17	5.1	4.5	0.6	Fig.2
RL250-400	0.4	0.8	250	3	8	5	2.5	0.75	6	12	17	5.1	4.5	0.6	Fig.5
RL250-500	0.5	1.0	250	3	10	5	2.5	0.45	5	16	18	5.1	4.5	0.8	Fig.1
RL250-600	0.6	1.2	250	3	12	5	3.0	0.5	5	16	18	5.1	4.5	0.8	Fig.1
RL250-800	0.8	1.6	250	5	18	5	3.5	0.4	3	20	22	5.1	4.5	0.8	Fig.1
RL250-1000	1.0	2.0	250	5	20	7	4.0	0.28	2.5	20	22	5.1	4.5	0.8	Fig.1
RL250-1200	1.2	2.4	250	6	15	3	5.0	0.2	2.5	22	28	5.1	4.5	0.8	Fig.1
RL250-1500	1.5	3.0	250	7.5	14	3	6.0	0.13	2.0	25	30	5.1	4.5	0.8	Fig.3
RL250-2000	2.0	4.0	250	10	14	5	6.0	0.12	1.5	26	32	10.2	4.5	0.8	Fig.3



Type Number	I_{hold}	I_{trip}	V_{max}	Time-to-Trip		I_{max}	Pd_{Typ}	R_{lmin}	R_{lmax}	Package Dimensions (mm)				
	A	A	VDC	Current (A)	Time (Sec)	A	W	Ω	Ω	A (max)	B (max)	C (typ)	D (max)	E (typ)
600V Series Positive Thermal Coefficient														
RL600-110	0.11	0.22	600	1	8	3	1.5	6.0	30.0	14.0	14.0	5.1	6.0	0.6
RL600-150	0.15	0.30	600	1	9	3	1.5	5.0	22.0	14.5	14.5	5.1	6.5	0.8
RL600-160	0.16	0.32	600	1	10	3	1.5	4.0	18.0	14.5	14.5	5.1	6.5	0.8



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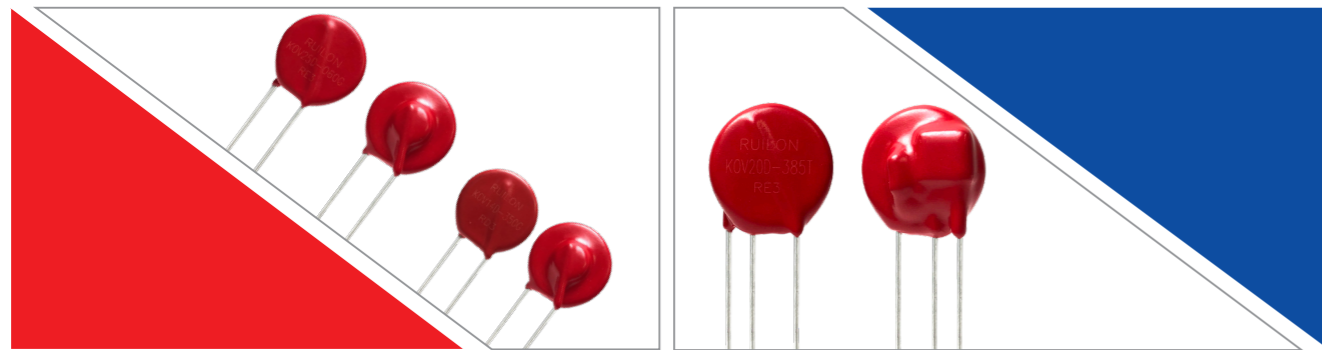
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复合防护单元 Keep Off Varistor (KOV)

KOV@G 系列

KOV14D-xxxG Series	159
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KOV@T 系列

KOV14D-xxxTb Series	163
KOV14D-xxxT Series	164
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KOV@G 系列

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KOV@G Series

产品特点 Features

使用寿命长，无漏流、无续流
 Long service life, no leakage, no continuous flow.

可靠性高，短路耐受能力强
 High reliability and strong short circuit tolerance.

安全性高，绝缘强度大
 High safety and insulation strength.

耐压高，低电容
 High voltage, low capacitance.

复合设计，体积小、残压低
 Compound design, small size, low residual voltage.

应用范围 Application

电源系统	光伏逆变器	通讯设备	消费类产品
Power Supply System	Photovoltaic Inverter	Communications Equipment	Consumer Products

Part No.	Max. Continuous Operating Voltage (MCOV)		Max. Leakage @ MCOV	Max Capacitance	Inom UL1449/4th.	Uoc IEC61000-4-5	Ring Wave Surge IEEE 62.41	Protection Level Current Class (1) IEC 61051-1		Comply with safety standards IEC62368-1:2018 GB4943.1-2022	Package Dimensions (mm)		
	V _{rms}	V _{DC}	A _{rms}	1MHz	15 Ops.	40 Ops.	200 A	Max.	Typ.		V _r	T(Max)	C
	V	V	μA	pF	In(A)	Uoc(V)	Ops.	V _{fp}	V _c				
KOV14D-xxxG Series													
KOV14D-050G	50	65	< 1	4	3,000	6,000	± 250	700	150	50	6.5	4.0	
KOV14D-060G	60	85	< 1	4	3,000	6,000	± 250	700	185	50	6.6	4.0	
KOV14D-130G	130	170	< 1	4	3,000	6,000	± 250	700	360	50	7.1	4.0	
KOV14D-150G	150	200	< 1	4	3,000	6,000	± 250	700	390	100	7.3	4.2	
KOV14D-175G	175	225	< 1	4	3,000	6,000	± 250	1200	475	120	7.5	4.4	
KOV14D-210G	210	275	< 1	4	3,000	6,000	± 250	1200	535	150	7.6	4.7	
KOV14D-250G	250	320	< 1	4	3,000	6,000	± 250	1200	630	150	7.9	5.0	
KOV14D-275G	275	350	< 1	4	3,000	6,000	± 250	1200	680	208	8.1	5.2	
KOV14D-300G	300	385	< 1	4	3,000	6,000	± 250	1200	740	208	8.3	5.4	
KOV14D-320G	320	415	< 1	4	3,000	6,000	± 250	1200	810	230	8.5	5.6	
KOV14D-350G	350	460	< 1	4	3,000	6,000	± 250	1600	870	240	8.7	5.8	
KOV14D-385G	385	505	< 1	4	3,000	6,000	± 250	1600	950	277	8.9	6.1	
KOV14D-420G	420	560	< 1	4	3,000	6,000	± 250	1600	1050	300	9.2	6.4	
KOV14D-460G	460	615	< 1	4	3,000	6,000	± 250	2200	1150	400	9.5	7.2	
KOV14D-510G	510	670	< 1	4	3,000	6,000	± 250	2200	1330	480	10.0	7.5	
KOV14D-550G	550	745	< 1	4	3,000	6,000	± 250	3000	1455	600	11.0	7.9	
KOV14D-750G	750	990	< 1	4	3,000	6,000	± 250	3000	1930	690	12.0	8.8	

1) Front Level Protection (V_{fp}) defined as measured with 10 % of peak current in accordance with IEC 61051-1.

尺寸 Dimensions

Symbol	Millimeters	Inches
H(max)	20	0.787
L(min)	15	0.591
D(max)	16.5	0.649
D1(± 1.0)	7.5	0.295
d(± 0.1)	0.8	0.031

Part No.	Max. Continuous Operating Voltage (MCOV)		Max. Leakage @ MCOV	Max Capacitance	Inom UL1449/4th.	Uoc IEC61000-4-5	Ring Wave Surge IEEE 62.41	Protection Level Current Class (1) IEC 61051-1		Comply with safety standards IEC62368-1:2018 GB4943.1-2022	Package Dimensions (mm)		
	V _{rms}	V _{DC}	A _{rms}	1MHz	15 Ops.	40 Ops.	200 A	Max.	Typ.		V _r	T(Max)	C
	V	V	μA	pF	In(A)	Uoc(V)	Ops.	V _{fp}	V _c				
KOV20D-xxxG Series													
KOV20D-050G	50	65	< 1	4	5000	10000	± 250	700	150	50	6.9	4.2	
KOV20D-060G	60	85	< 1	4	5000	10000	± 250	700	185	50	7.0	4.2	
KOV20D-130G	130	170	< 1	4	5000	10000	± 250	700	360	50	7.5	4.2	
KOV20D-150G	150	200	< 1	4	5000	10000	± 250	700	390	100	7.8	4.4	
KOV20D-175G	175	225	< 1	4	5000	10000	± 250	1200	475	120	7.9	4.6	
KOV20D-210G	210	275	< 1	4	5000	10000	± 250	1200	535	150	8.0	4.9	
KOV20D-250G	250	320	< 1	4	5000	10000	± 250	1200	630	150	8.3	5.2	
KOV20D-275G	275	350	< 1	4	5000	10000	± 250	1200	680	208	8.5	5.4	
KOV20D-300G	300	385	< 1	4	5000	10000	± 250	1200	740	208	8.7	5.6	
KOV20D-320G	320	415	< 1	4	5000	10000	± 250	1200	810	230	8.9	5.8	
KOV20D-350G	350	460	< 1	4	5000	10000	± 250	1600	870	240	9.1	6.0	
KOV20D-385G	385	505	< 1	4	5000	10000	± 250	1600	950	277	9.3	6.3	
KOV20D-420G	420	560	< 1	4	5000	10000	± 250	1600	1050	300	9.6	6.6	
KOV20D-460G	460	615	< 1	4	5000	10000	± 250	2200	1150	400	9.9	7.4	
KOV20D-510G	510	670	< 1	4	5000	10000	± 250	2200	1330	480	10.4	7.7	
KOV20D-550G	550	745	< 1	4	5000	10000	± 250	3000	1455	600	12.0	8.0	
KOV20D-750G	750	990	< 1	4	5000	10000	± 250	3000	1930	690	13.0	9.0	

1) Front Level Protection (V_{fp}) defined as measured with 10 % of peak current in accordance with IEC 61051-1.

尺寸 Dimensions

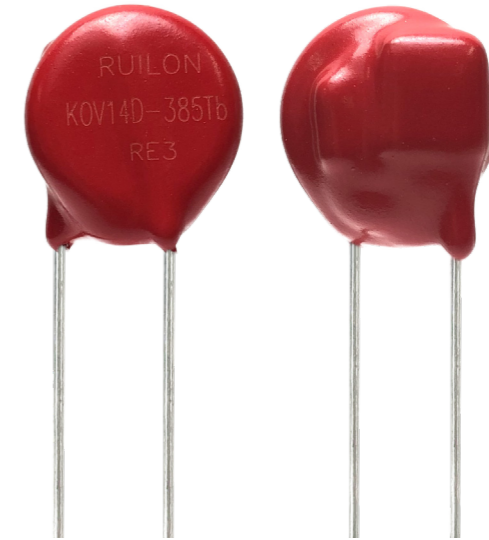
Symbol	Millimeters	Inches
H(max)	26	1.024
L(min)	15	0.591
D(max)	23	0.906
D1(± 1.0)	10	0.394
d(± 0.1)	1	0.039

Part No.	Max. Continuous Operating Voltage (MCOV)		Max. Leakage @ MCOV	Max Capacitance	Inom UL1449/4th.	U _{oc} IEC61000-4-5	Ring Wave Surge IEEE 62.41	Protection Level Current Class (1) IEC 61051-1		Comply with safety standards IEC62368-1:2018 GB4943.1-2022	Package Dimensions (mm)		
	V _{rms}	V _{DC}	A _{rms}	1MHz	15 Ops.	40 Ops.	200 A	Max.	Typ.		V _r	T(Max)	C
	V	V	μA	pF	In(A)	U _{oc} (V)	Ops.	V _{fp}	V _c				
KOV25D-xxxG Series													
KOV25D-050G	50	65	< 1	4	10000	20000	± 250	700	150	50	7.1	4.2	
KOV25D-060G	60	85	< 1	4	10000	20000	± 250	700	185	50	7.3	4.2	
KOV25D-130G	130	170	< 1	4	10000	20000	± 250	700	360	50	7.7	4.2	
KOV25D-150G	150	200	< 1	4	10000	20000	± 250	700	390	100	7.8	4.4	
KOV25D-175G	175	225	< 1	4	10000	20000	± 250	1200	475	120	8.1	4.6	
KOV25D-210G	210	275	< 1	4	10000	20000	± 250	1200	535	150	8.2	4.9	
KOV25D-250G	250	320	< 1	4	10000	20000	± 250	1200	630	150	8.5	5.2	
KOV25D-275G	275	350	< 1	4	10000	20000	± 250	1200	680	208	8.7	5.4	
KOV25D-300G	300	385	< 1	4	10000	20000	± 250	1200	740	208	8.9	5.6	
KOV25D-320G	320	415	< 1	4	10000	20000	± 250	1200	810	230	9.1	5.8	
KOV25D-350G	350	460	< 1	4	10000	20000	± 250	1600	870	240	9.2	6.0	
KOV25D-385G	385	505	< 1	4	10000	20000	± 250	1600	950	277	9.5	6.3	
KOV25D-420G	420	560	< 1	4	10000	20000	± 250	1600	1050	300	9.8	6.6	
KOV25D-460G	460	615	< 1	4	10000	20000	± 250	2200	1150	400	10.1	7.4	
KOV25D-510G	510	670	< 1	4	10000	20000	± 250	2200	1330	480	10.6	7.7	
KOV25D-550G	550	745	< 1	4	10000	20000	± 250	3000	1455	600	12.0	8.0	
KOV25D-750G	750	990	< 1	4	10000	20000	± 250	3000	1930	690	13.0	9.0	

1) Front Level Protection (V_{fp}) defined as measured with 10 % of peak current in accordance with IEC 61051-1.

尺寸Dimensions

Symbol	Millimeters	Inches
H(max)	32	1.260
L(min)	20	0.788
D(max)	28	0.103
D1(± 1.0)	10	0.394
d(± 0.1)	1	0.039



KOV@T Series

产品特点 Features

具备过温、过流保护功能，实现安全失效
Features over-temperature and over-current protection functions to achieve safe failure.

复合型的热耦合设计，热传导效率高
Composite head-coupling design with high heat conduction efficiency.

采用低阻抗易熔合金保险丝，残压低，热保护动作响应速度快
Adopts low impedance fusible alloy fuse with low residual voltage and fast thermal protection response speed.

使用高导热、高耐压、耐高温的封装材料，更安全可靠
Uses high heat conducting, high voltage-resistant and high-temperature-resistant encapsulation materials for safer and more reliable performance.

可选遥信和状态指示接入点
Optional remote signaling and status indicator access point.

应用范围 Application

电源系统	光伏逆变器	通讯设备	消费类产品
Power Supply System	Photovoltaic Inverter	Communications Equipment	Consumer Products

Type Number	Maximum Continuous Operating Voltage		Current Impulse (8/20μs)		Varistors Voltage @1mA dc		Clamping Voltage (Max.)		Max. Energy (10/1000μs)	Typical Capacitance (Reference) @1 kHz	Comply with safety standards IEC62368-1:2018 GB4943.1-2022		Package Dimensions (mm)	
	U _c (Vac)	U _{CPV} (Vdc)	I _n (kA)	I _{max} (kA)	Min. (V)	Max. (V)	V _c (V)	I _p (A)	(J)	(pF)	V _r	T(Max)	T1	
KOV14D-xxxTb Series														
KOV14D-050Tb	50	65	3	6	75	92	135	50	27	2400	50	7.4	3.1	
KOV14D-060Tb	60	85	3	6	90	110	165	50	33	2000	60	7.4	3.1	
KOV14D-130Tb	130	170	3	6	185	225	340	50	70	1000	130	7.4	3.1	
KOV14D-140Tb	140	180	3	6	198	242	360	50	78	900	140	7.5	3.2	
KOV14D-150Tb	150	200	3	6	216	264	395	50	84	830	150	7.6	3.3	
KOV14D-175Tb	175	225	3	6	243	297	455	50	99	740	175	7.8	3.5	
KOV14D-190Tb	190	250	3	6	270	330	500	50	108	670	190	7.9	3.6	
KOV14D-210Tb	210	275	3	6	297	363	550	50	115	610	210	8.1	3.8	
KOV14D-230Tb	230	300	3	6	324	396	595	50	130	560	230	8.2	3.9	
KOV14D-250Tb	250	320	3	6	351	429	650	50	140	510	250	8.4	4.1	
KOV14D-275Tb	275	350	3	6	387	473	710	50	155	460	275	8.6	4.3	
KOV14D-300Tb	300	385	3	6	423	517	775	50	175	430	300	8.8	4.5	
KOV14D-320Tb	320	415	3	6	459	561	845	50	180	390	320	9.0	4.7	
KOV14D-350Tb	350	460	3	6	504	616	925	50	185	360	350	9.2	4.9	
KOV14D-385Tb	385	505	3	6	558	682	1025	50	190	320	385	9.5	5.2	
KOV14D-420Tb	420	560	3	6	612	748	1120	50	200	290	420	9.8	5.5	
KOV14D-460Tb	460	615	3	6	675	825	1240	50	210	270	460	10.2	5.9	
KOV14D-510Tb	510	670	3	6	738	902	1355	50	235	240	510	10.5	6.2	
KOV14D-550Tb	550	745	3	6	819	1001	1500	50	255	220	550	10.9	6.6	
KOV14D-620Tb	620	820	3	6	900	1100	1650	50	280	200	620	11.4	7.1	
KOV14D-680Tb	680	890	3	6	990	1210	1815	50	310	180	680	11.9	7.6	
KOV14D-750Tb	750	990	3	6	1080	1320	1980	50	324	160	750	12.4	8.1	

尺寸 Dimensions

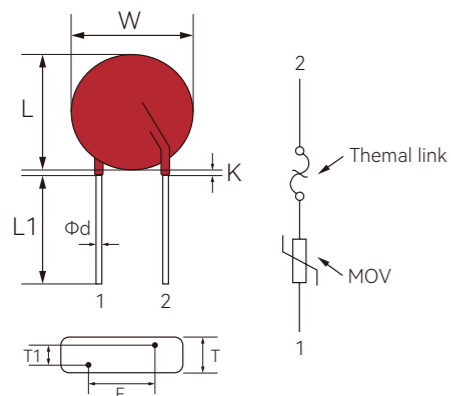


TABLE 1		
Symbol	Millimeters	Inches
W(max)	19.0	0.748
L(max)	21.0	0.827
L1(min)	15.0	0.591
F(±0.5)	7.5	0.295
K(max)	3.0	0.118
d(±0.5)	Φ0.8	0.031

Type Number	Maximum Continuous Operating Voltage		Current Impulse (8/20μs)		Varistors Voltage @1mA dc		Clamping Voltage (Max.)		Max. Energy (10/1000μs)	Typical Capacitance (Reference) @1 kHz	Comply with safety standards IEC62368-1:2018 GB4943.1-2022		Package Dimensions (mm)	
	U _c (Vac)	U _{CPV} (Vdc)	I _n (kA)	I _{max} (kA)	Min. (V)	Max. (V)	V _c (V)	I _p (A)	(J)	(pF)	V _r	T(Max)	T2	
KOV14D-xxxT Series														
KOV14D-050T	50	65	3	6	75	92	135	50	27	2400	50	7.4	1.8	
KOV14D-060T	60	85	3	6	90	110	165	50	33	2000	60	7.4	1.8	
KOV14D-130T	130	170	3	6	185	225	340	50	70	1000	130	7.4	1.8	
KOV14D-140T	140	180	3	6	198	242	360	50	78	900	140	7.5	1.9	
KOV14D-150T	150	200	3	6	216	264	395	50	84	830	150	7.6	2.0	
KOV14D-175T	175	225	3	6	243	297	455	50	99	740	175	7.8	2.2	
KOV14D-190T	190	250	3	6	270	330	500	50	108	670	190	7.9	2.3	
KOV14D-210T	210	275	3	6	297	363	550	50	115	610	210	8.1	2.5	
KOV14D-230T	230	300	3	6	324	396	595	50	130	560	230	8.2	2.6	
KOV14D-250T	250	320	3	6	351	429	650	50	140	510	250	8.4	2.8	
KOV14D-275T	275	350	3	6	387	473	710	50	155	460	275	8.6	3.0	
KOV14D-300T	300	385	3	6	423	517	775	50	175	430	300	8.8	3.2	
KOV14D-320T	320	415	3	6	459	561	845	50	180	390	320	9.0	3.4	
KOV14D-350T	350	460	3	6	504	616	925	50	185	360	350	9.2	3.6	
KOV14D-385T	385	505	3	6	558	682	1025	50	190	320	385	9.5	3.9	
KOV14D-420T	420	560	3	6	612	748	1120	50	200	290	420	9.8	4.2	
KOV14D-460T	460	615	3	6	675	825	1240	50	210	270	460	10.2	4.6	
KOV14D-510T	510	670	3	6	738	902	1355	50	235	240	510	10.5	4.9	
KOV14D-550T	550	745	3	6	819	1001	1500	50	255	220	550	10.9	5.3	
KOV14D-620T	620	820	3	6	900	1100	1650	50	280	200	620	11.4	5.8	
KOV14D-680T	680	890	3	6	990	1210	1815	50	310	180	680	11.9	6.3	
KOV14D-750T	750	990	3	6	1080	1320	1980	50	324	160	750	12.4	6.8	

尺寸 Dimensions

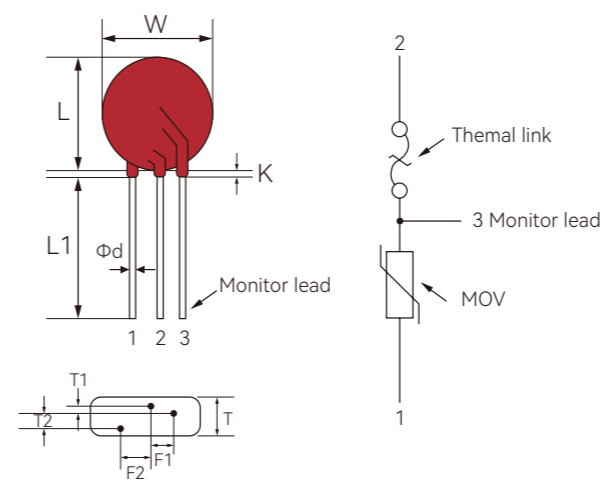


TABLE 1		
Symbol	Millimeters	Inches
W(max)	19.0	0.748
L(max)	21.0	0.827
L1(min)	15.0	0.591
F1(±0.5)	5.0	0.197
F2(±1.0)	7.5	0.295
T1(±0.3)	1.3	0.059
K(max)	3.0	0.118
d(±0.5)	Φ0.8	0.031

Type Number	Maximum Continuous Operating Voltage		Current Impulse (8/20μs)		Varistors Voltage @1mA dc		Clamping Voltage (Max.)		Max. Energy (10/1000μs)	Typical Capacitance (Reference) @1 kHz	Comply with safety standards IEC62368-1:2018 GB4943.1-2022		Package Dimensions (mm)	
	U _C (Vac)	U _{CPV} (Vdc)	I _n (kA)	I _{max} (kA)	Min. (V)	Max. (V)	V _C (V)	I _p (A)	(J)	(pF)	V _r	T(Max)	T1	
KOV20D-xxxTb Series														
KOV20D-050Tb	50	65	5	10	75	92	135	100	56	4900	50	8.4	3.6	
KOV20D-060Tb	60	85	5	10	90	110	165	100	70	4000	60	8.4	3.6	
KOV20D-130Tb	130	170	5	10	185	225	340	100	140	2000	130	8.4	3.6	
KOV20D-140Tb	140	180	5	10	198	242	360	100	155	1800	140	8.5	3.7	
KOV20D-150Tb	150	200	5	10	216	264	395	100	168	1650	150	8.6	3.8	
KOV20D-175Tb	175	225	5	10	243	297	455	100	190	1500	175	8.8	4.0	
KOV20D-190Tb	190	250	5	10	270	330	500	100	210	1300	190	8.9	4.1	
KOV20D-210Tb	210	275	5	10	297	363	550	100	228	1200	210	9.1	4.3	
KOV20D-230Tb	230	300	5	10	324	396	595	100	255	1100	230	9.2	4.4	
KOV20D-250Tb	250	320	5	10	351	429	650	100	275	1000	250	9.4	4.6	
KOV20D-275Tb	275	350	5	10	387	473	710	100	305	930	275	9.6	4.8	
KOV20D-300Tb	300	385	5	10	423	517	775	100	350	850	300	9.8	5.0	
KOV20D-320Tb	320	415	5	10	459	561	845	100	360	780	320	10.0	5.2	
KOV20D-350Tb	350	460	5	10	504	616	925	100	380	710	350	10.2	5.4	
KOV20D-385Tb	385	505	5	10	558	682	1025	100	390	650	385	10.5	5.7	
KOV20D-420Tb	420	560	5	10	612	748	1120	100	400	600	420	10.8	6.0	
KOV20D-460Tb	460	615	5	10	675	825	1240	100	420	530	460	11.2	6.4	
KOV20D-510Tb	510	670	5	10	738	902	1355	100	460	500	510	11.5	6.7	
KOV20D-550Tb	550	745	5	10	819	1001	1500	100	510	440	550	12.0	7.2	
KOV20D-620Tb	620	820	5	10	900	1100	1650	100	565	400	620	12.4	7.6	
KOV20D-680Tb	680	890	5	10	990	1210	1815	100	620	360	680	12.9	8.1	
KOV20D-750Tb	750	990	5	10	1080	1320	1980	100	660	350	750	13.4	8.6	

尺寸 Dimensions

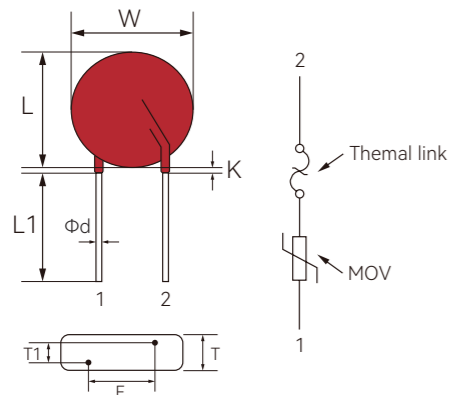


TABLE 1		
Symbol	Millimeters	Inches
W(max)	24.0	0.945
L(max)	26.0	1.024
L1(±1.0)	20.0	0.787
F(±0.5)	7.5	0.295
K(max)	3.0	0.118
d(±0.5)	Φ1.0	0.041

Type Number	Maximum Continuous Operating Voltage		Current Impulse (8/20μs)		Varistors Voltage @1mA dc		Clamping Voltage (Max.)		Max. Energy (10/1000μs)	Typical Capacitance (Reference) @1 kHz	Comply with safety standards IEC62368-1:2018 GB4943.1-2022		Package Dimensions (mm)	
	U _C (Vac)	U _{CPV} (Vdc)	I _n (kA)	I _{max} (kA)	Min. (V)	Max. (V)	V _C (V)	I _p (A)	(J)	(pF)	V _r	T(Max)	T2	
KOV20D-xxxT Series														
KOV20D-050T	50	65	5	10	75	92	135	100	56	4900	50	8.4	2.0	
KOV20D-060T	60	85	5	10	90	110	165	100	70	4000	60	8.4	2.0	
KOV20D-130T	130	170	5	10	185	225	340	100	140	2000	130	8.4	2.0	
KOV20D-140T	140	180	5	10	198	242	360	100	155	1800	140	8.5	2.1	
KOV20D-150T	150	200	5	10	216	264	395	100	168	1650	150	8.6	2.2	
KOV20D-175T	175	225	5	10	243	297	455	100	190	1500	175	8.8	2.4	
KOV20D-190T	190	250	5	10	270	330	500	100	210	1300	190	8.9	2.5	
KOV20D-210T	210	275	5	10	297	363	550	100	228	1200	210	9.1	2.7	
KOV20D-230T	230	300	5	10	324	396	595	100	255	1100	230	9.2	2.8	
KOV20D-250T	250	320	5	10	351	429	650	100	275	1000	250	9.4	3.0	
KOV20D-275T	275	350	5	10	387	473	710	100	305	930	275	9.6	3.2	
KOV20D-300T	300	385	5	10	423	517	775	100	350	850	300	9.8	3.4	
KOV20D-320T	320	415	5	10	459	561	845	100	360	780	320	10.0	3.6	
KOV20D-350T	350	460	5	10	504	616	925	100	380	710	350	10.2	3.8	
KOV20D-385T	385	505	5	10	558	682	1025	100	390	650	385	10.5	4.1	
KOV20D-420T	420	560	5	10	612	748	1120	100	400	600	420	10.8	4.4	
KOV20D-460T	460	615	5	10	675	825	1240	100	420	530	460	11.2	4.8	
KOV20D-510T	510	670	5	10	738	902	1355	100	460	500	510	11.5	5.1	
KOV20D-550T	550	745	5	10	819	1001	1500	100	510	440	550	12.0	5.6	
KOV20D-620T	620	820	5	10	900	1100	1650	100	565	400	620	12.4	6.0	
KOV20D-680T	680	890	5	10	990	1210	1815	100	620	360	680	12.9	6.5	
KOV20D-750T	750	990	5	10	1080	1320	1980	100	660	350	750	13.4	7.0	

尺寸 Dimensions

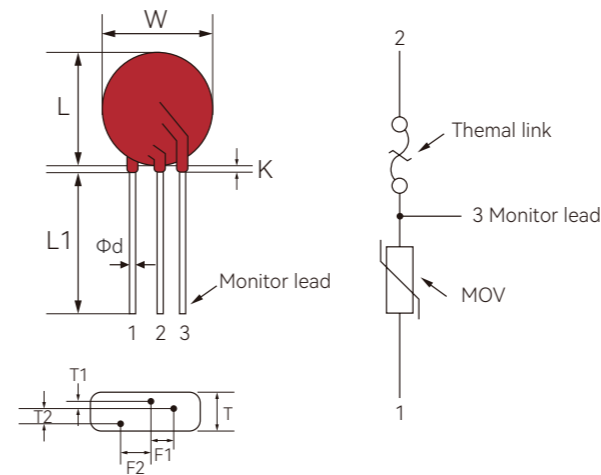


TABLE 1		
Symbol	Millimeters	Inches
W(max)	24.0	0.945
L(max)	26.0	1.024
L1(±1.0)	20.0	0.787
F1(±0.5)	5.0	0.197
F2(±1.0)	7.5	0.295
T1(±0.3)	1.6	0.071
K(max)	3.0	0.118
d(±0.5)	Φ1.0	0.041

Type Number	Maximum Continuous Operating Voltage		Current Impulse (8/20μs)		Varistors Voltage @1mA dc		Clamping Voltage (Max.)		Max. Energy (10/1000μs)	Typical Capacitance (Reference) @1 kHz	Comply with safety standards IEC62368-1:2018 GB4943.1-2022	Package Dimensions (mm)	
	U _C (Vac)	U _{CPV} (Vdc)	I _n (kA)	I _{max} (kA)	Min. (V)	Max. (V)	V _C (V)	I _p (A)	(J)	(pF)	V _r	T(Max)	T1
KOV25D-xxxTb Series													
KOV25D-050Tb	50	65	10	20	75	92	135	150	80	7700	50	10.2	4.5
KOV25D-060Tb	60	85	10	20	90	110	165	150	100	6300	60	10.2	4.5
KOV25D-130Tb	130	170	10	20	185	225	340	150	190	3200	130	10.2	4.5
KOV25D-140Tb	140	180	10	20	198	242	360	150	200	2900	140	10.3	4.6
KOV25D-150Tb	150	200	10	20	216	264	395	150	220	2650	150	10.4	4.7
KOV25D-175Tb	175	225	10	20	243	297	455	150	255	2400	175	10.6	4.9
KOV25D-190Tb	190	250	10	20	270	330	500	150	275	2100	190	10.7	5.0
KOV25D-210Tb	210	275	10	20	297	363	550	150	300	1900	210	10.9	5.2
KOV25D-230Tb	230	300	10	20	324	396	595	150	330	1750	230	11.0	5.3
KOV25D-250Tb	250	320	10	20	351	429	650	150	360	1600	250	11.2	5.5
KOV25D-275Tb	275	350	10	20	387	473	710	150	380	1500	275	11.4	5.7
KOV25D-300Tb	300	385	10	20	423	517	775	150	400	1400	300	11.6	5.9
KOV25D-320Tb	320	415	10	20	459	561	845	150	420	1250	320	11.8	6.1
KOV25D-350Tb	350	460	10	20	504	616	925	150	440	1150	350	12.0	6.3
KOV25D-385Tb	385	505	10	20	558	682	1025	150	450	1050	385	12.3	6.6
KOV25D-420Tb	420	560	10	20	612	748	1120	150	460	950	420	12.6	6.9
KOV25D-460Tb	460	615	10	20	675	825	1240	150	510	850	460	13.0	7.3
KOV25D-510Tb	510	670	10	20	738	902	1355	150	570	800	510	13.3	7.6
KOV25D-550Tb	550	745	10	20	819	1001	1500	150	620	700	550	13.8	8.1
KOV25D-620Tb	620	820	10	20	900	1100	1650	150	685	650	620	14.2	8.5
KOV25D-680Tb	680	890	10	20	990	1210	1815	150	720	600	680	14.7	9.0
KOV25D-750Tb	750	990	10	20	1080	1320	1980	150	792	550	750	15.2	9.5

尺寸 Dimensions

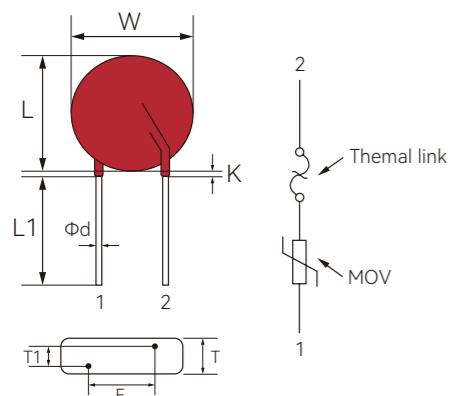


TABLE 1		
Symbol	Millimeters	Inches
W(max)	29.0	1.142
L(max)	32.0	1.26
L1(min)	15.0	0.591
F(±0.5)	7.5	0.295
K(max)	3.0	0.118
d(±0.5)	Φ1.0	0.041

Type Number	Maximum Continuous Operating Voltage		Current Impulse (8/20μs)		Varistors Voltage @1mA dc		Clamping Voltage (Max.)		Max. Energy (10/1000μs)	Typical Capacitance (Reference) @1 kHz	Comply with safety standards IEC62368-1:2018 GB4943.1-2022	Package Dimensions (mm)	
	U _C (Vac)	U _{CPV} (Vdc)	I _n (kA)	I _{max} (kA)	Min. (V)	Max. (V)	V _C (V)	I _p (A)	(J)	(pF)	V _r	T(Max)	T2
KOV25D-xxxT Series													
KOV25D-050T	50	65	10	20	75	92	135	150	80	7700	50	10.2	2.0
KOV25D-060T	60	85	10	20	90	110	165	150	100	6300	60	10.2	2.0
KOV25D-130T	130	170	10	20	185	225	340	150	190	3200	130	10.2	2.0
KOV25D-140T	140	180	10	20	198	242	360	150	200	2900	140	10.3	2.1
KOV25D-150T	150	200	10	20	216	264	395	150	220	2650	150	10.4	2.2
KOV25D-175T	175	225	10	20	243	297	455	150	255	2400	175	10.6	2.4
KOV25D-190T	190	250	10	20	270	330	500	150	275	2100	190	10.7	2.5
KOV25D-210T	210	275	10	20	297	363	550	150	300	1900	210	10.9	2.7
KOV25D-230T	230	300	10	20	324	396	595	150	330	1750	230	11.0	2.8
KOV25D-250T	250	320	10	20	351	429	650	150	360	1600	250	11.2	3.0
KOV25D-275T	275	350	10	20	387	473	710	150	380	1500	275	11.4	3.2
KOV25D-300T	300	385	10	20	423	517	775	150	400	1400	300	11.6	3.4
KOV25D-320T	320	415	10	20	459	561	845	150	420	1250	320	11.8	3.6
KOV25D-350T	350	460	10	20	504	616	925	150	440	1150	350	12.0	3.8
KOV25D-385T	385	505	10	20	558	682	1025	150	450	1050	385	12.3	4.1
KOV25D-420T	420	560	10	20	612	748	1120	150	460	950	420	12.6	4.4
KOV25D-460T	460	615	10	20	675	825	1240	150	510	850	460	13.0	4.8
KOV25D-510T	510	670	10	20	738	902	1355	150	570	800	510	13.3	5.1
KOV25D-550T	550	745	10	20	819	1001	1500	150	620	700	550	13.8	5.6
KOV25D-620T	620	820	10	20	900	1100	1650	150	685	650	620	14.2	6.0
KOV25D-680T	680	890	10	20	990	1210	1815	150	720	600	680	14.7	6.5
KOV25D-750T	750	990	10	20	1080	1320	1980	150	792	550	750	15.2	7.0

尺寸 Dimensions

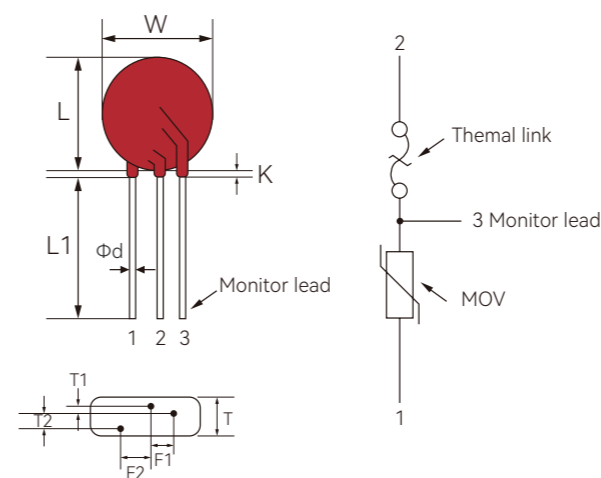


TABLE 1		
Symbol	Millimeters	Inches
W(max)	29.0	1.142
L(max)	32.0	1.26
L1(min)	15.0	0.591
F1(±0.5)	5.0	0.197
F2(±1.0)	7.5	0.295
T1(±0.3)	2.5	0.106
K(max)	3.0	0.118
d(±0.5)	Φ1.0	0.041



KOV@MT Series

产品特点 Features

复合型的模组化设计，体积小、残压低
Compound modular design, small size, low residual voltage.

实现单相三线全模式防护，最大开路电压 20KV
Realize single-phase three-wire full mode protection with a maximum open circuit voltage of 20KV.

符合 IEC61000-4-5 标准的测试要求，可耐受 120 次的浪涌冲击
Meets the testing requirements of IEC61000-4-5 standard and can withstand 120 surges.

插件封装，安全使用方便
Plug-in encapsulation, easy to install and use.

应用范围 Application

电源系统	光伏逆变器	通讯设备	消费类产品
Power Supply System	Photovoltaic Inverter	Communications Equipment	Consumer Products

Part No.	Max. Continuous Operating Voltage (MCOV)		Max. Leakage @ MCOV	Max Capacitance	UOC IEC61000-4-5	Ring Wave Surge IEEE 62.41	Protection Level Current Class (1) IEC 61051-1	Maximum Clamping Voltage				Clamp Transition Time	Energy	
	V _{rms}	V _{DC}	A _{rms}	1MHz	line-to-line 2Ω line-to-ground 12Ω 40 Ops.	200A	Max.	1 to 2	1, 2 to 3	1 to 2, 3	2 to 3		line-to-line	line-to-ground
	V	V	μA	pF	V	Ops.	V _{fp}	I _p (A)	V _c (v)	μs	8/20μs(J)			
KOV25D-xxxMT Series														
KOV25D-130MT	130	170	< 10	4	20	± 250	700	150	50	320	600	0.3	175	60
KOV25D-175MT	175	225	< 10	4	20	± 250	1200	150	50	415	790	0.3	220	84
KOV25D-210MT	210	275	< 10	4	20	± 250	1200	150	50	475	910	0.3	255	99
KOV25D-250MT	250	320	< 10	4	20	± 250	1200	150	50	535	1000	0.3	275	108
KOV25D-275MT	275	350	< 10	4	20	± 250	1200	150	50	585	1100	0.3	300	115
KOV25D-300MT	300	385	< 10	4	20	± 250	1200	150	50	630	1190	0.3	330	130
KOV25D-130MT	320	415	< 10	4	20	± 250	1200	150	50	680	1300	0.3	360	140
KOV25D-175MT	350	460	< 10	4	20	± 250	1400	150	50	810	1550	0.3	400	175
KOV25D-210MT	385	505	< 10	4	20	± 250	1400	150	50	870	1690	0.3	420	180
KOV25D-250MT	420	560	< 10	4	20	± 250	1400	150	50	950	1850	0.3	440	185
KOV25D-275MT	460	615	< 10	4	20	± 250	1600	150	50	1050	2050	0.3	450	190
KOV25D-300MT	510	670	< 10	4	20	± 250	1600	150	50	1150	2240	0.3	460	200

1)Front Level Protection (V_{fp}) defined as measured with 10% of peak current in accordance with IEC 61051-1.

Dimensions

TABLE 1

Symbol	Millimeters	Inches
H(max)	32.0	1.260
L(min)	20.0	0.788
D(max)	28.0	1.103
D1(±0.5)	10	0.394
D2(±0.5)	10	0.394
T(max)	TABLE 2	
d(±0.1)	1.0	0.039

Packaging Quantity: 100pcs/bag

KOV25D-130MT	8.3	KOV25D-130MT	9.8
KOV25D-175MT	8.8	KOV25D-175MT	10.3
KOV25D-210MT	8.7	KOV25D-210MT	11.0
KOV25D-250MT	8.8	KOV25D-250MT	11.7
KOV25D-275MT	9.0	KOV25D-275MT	11.6
KOV25D-300MT	9.3	KOV25D-300MT	12.5

GDT系列



SPD系列



MOV系列



KOV系列



ESD系列



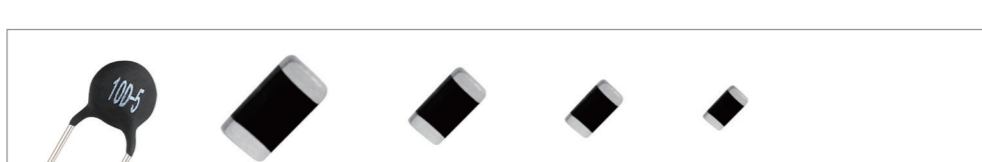
PTC系列



TVS系列



NTC系列



产品认证



企业认证





官方公众号 | **RUILON**

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