

Data Sheet

Gas Discharge Tube

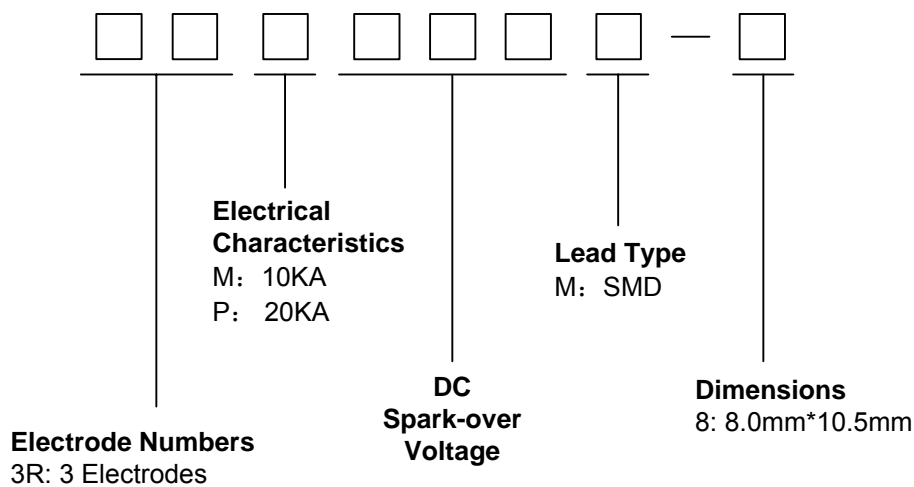
Features

- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/ μ s.
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance ($\leq 2\text{pF}$)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 8.0mm*10.5mm
- Storage and operational temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Meets MSL level 1, per J-STD-020

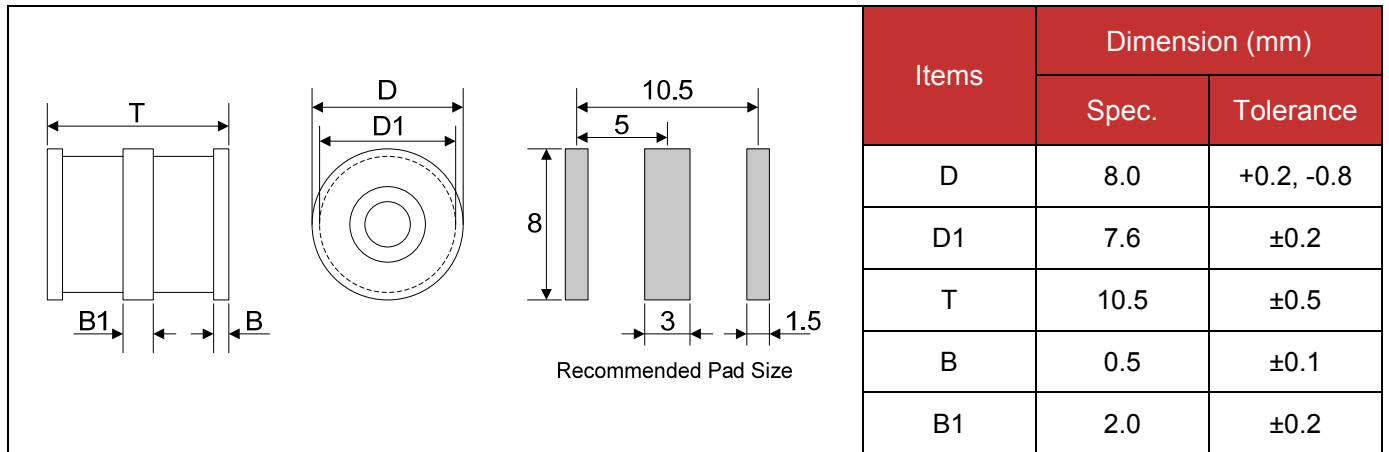
Applications

- Repeaters, Modems.
- Telephone Interface, Line cards.
- Data communication equipment.
- Line test equipment

Part Number Code



Dimensions



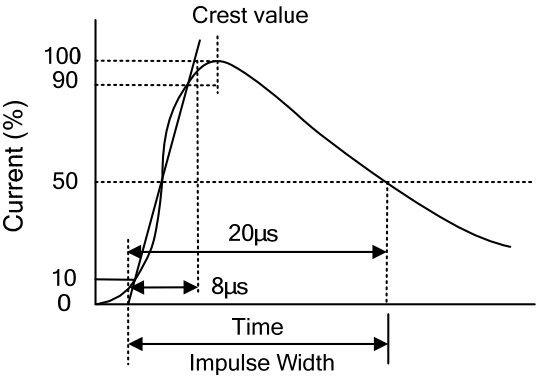
Electrical Characteristics

Part Number	Type ①	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current ②	Alternating Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance	Device Marking Code
		100V/s	1000V/μs	8/20μs 10times	50Hz, 1sec	10/1000μs 100A	Test Voltage	(GΩ)	1MHz	
		(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)	
3RM075M-8	SD	75±20%	700	10	10	300	25	1.0	2.0	3RM075-8
3RM090M-8	SD	90±20%	700	10	10	300	50	1.0	2.0	3RM090-8
3RM150M-8	SD	150±20%	700	10	10	300	100	1.0	2.0	3RM150-8
3RM200M-8	SD	200±20%	700	10	10	300	100	1.0	2.0	3RM200-8
3RM230M-8	SD	230±20%	700	10	10	300	100	1.0	2.0	3RM230-8
3RM350M-8	SD	350±20%	850	10	10	300	100	1.0	2.0	3RM350-8
3RM400M-8	SD	400±20%	850	10	10	300	100	1.0	2.0	3RM400-8
3RM470M-8	SD	470±20%	950	10	10	300	250	1.0	2.0	3RM470-8
3RM600M-8	SD	600±20%	1300	10	10	300	250	1.0	2.0	3RM600-8
3RM800M-8	SD	800±20%	1500	10	10	300	250	1.0	2.0	3RM800-8
3RP075M-8	SD	75±20%	700	20	20	300	25	1.0	2.0	3RP075-8
3RP090M-8	SD	90±20%	700	20	20	300	50	1.0	2.0	3RP090-8
3RP150M-8	SD	150±20%	700	20	20	300	100	1.0	2.0	3RP150-8
3RP200M-8	SD	200±20%	700	20	20	300	100	1.0	2.0	3RP200-8
3RP230M-8	SD	230±20%	700	20	20	300	100	1.0	2.0	3RP230-8
3RP350M-8	SD	350±20%	850	20	20	300	100	1.0	2.0	3RP350-8
3RP400M-8	SD	400±20%	850	20	20	300	100	1.0	2.0	3RP400-8
3RP470M-8	SD	470±20%	950	20	20	300	250	1.0	2.0	3RP470-8
3RP600M-8	SD	600±20%	1300	20	20	300	250	1.0	2.0	3RP600-8
3RP800M-8	SD	800±20%	1500	20	20	300	250	1.0	2.0	3RP800-8

Notes: ① Specific code by request.

② Impulse discharge current for GDT is the total current equally divided between each line to ground.

Electrical Ratings

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with a low rate of rise $dv/dt=100V/s$.	To meet the specified value
Maximum Impulse Spark-over Voltage	The maximum impulse breakdown voltage is measured with a rise time of $dv/dt=1000V/\mu s$.	
Impulse Discharge Current	<p>The maximum current applying a waveform of 8/20μs that can be applied across the terminals of the gas tube without causing the gas tube to change more than $\pm 25\%$ from its initial measured DC breakdown voltage. Dwell time between pulses is 3 minutes.</p> 	
Alternating Discharge Current	<p>Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3 min. DC breakdown voltage may not change more than $\pm 25\%$ from its initial measured DC breakdown voltage.</p> <p>$IR > 10^8$ ohms (-20%, +30% for 70~90V).</p>	
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal. Please see above spec.	
Capacitance	<p>The capacitance of gas tube shall be measured each terminal each other terminal.</p> <p>Test frequency: 1MHz</p>	

Packaging

Tape	Dimension (mm)		
	Spec.	Tolerance	
	W	16.00	±0.20
	P0	4.00	±0.10
	P1	16.00	±0.10
	P2	2.00	±0.10
	D0	1.55	±0.05
	E	1.75	±0.10
	F	7.50	±0.10
	A0	11.60	±0.10
	K0	8.90	±0.10
	B0	8.60	±0.10
	B1	10.00	±0.10
	t0	0.50	±0.05
	D	330.00	±1.00
	d	13.00	±0.50
	L	20.00	±0.50
t	2.00	±0.20	
Quantity: 300pcs			

Reel

