



Gas Discharge Tube (GDT) Data Sheet

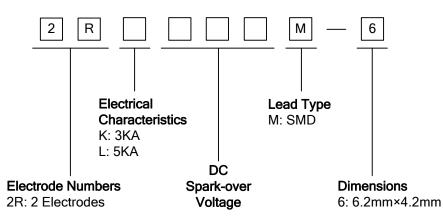
Features

- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/µs
- Stable breakdown voltage
- High insulation resistance
- Low capacitance (≤1pF)
- High holdover voltage
- Large absorbing transient current capability
- Micro-Gap Design
- Size: 6.2mm*4.2mm
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: E244458 & E327997

Applications

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

Part Number Code



Marking

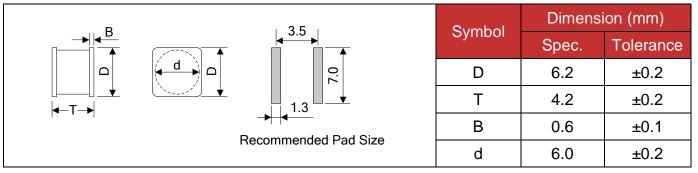
B : BrightKing Logo 2RL090-6 : Device Marking Code YXXX : Date Code







Dimensions

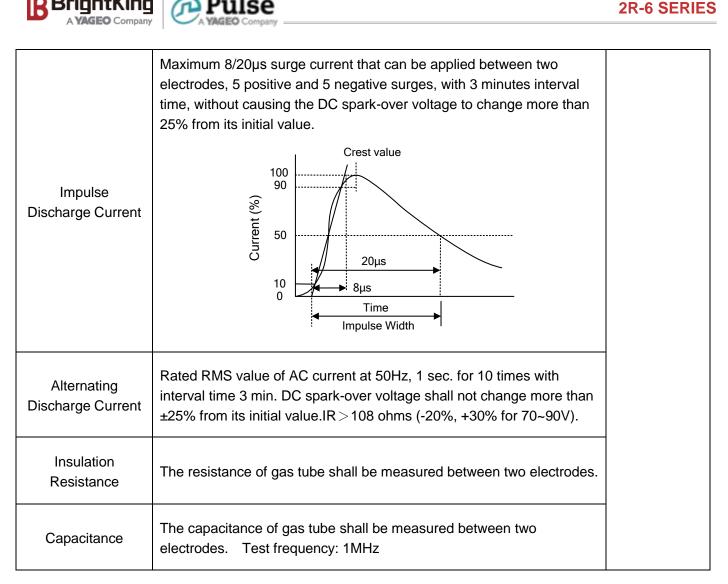


Electrical Characteristics

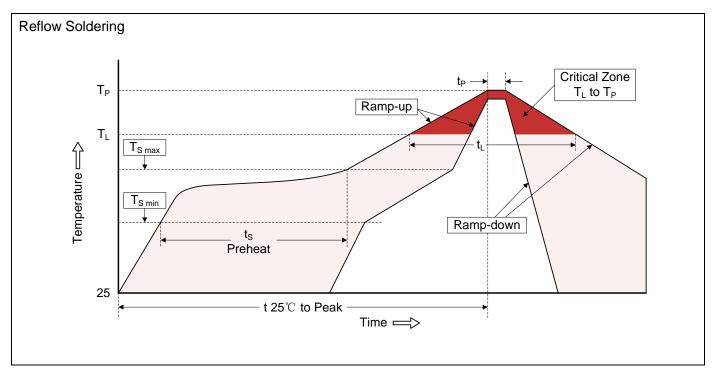
Part	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minim Insula Resista	tion	Maximum Capacitance	Device Marking Code
Number	100V/s	1000V/µs	8/20µs 10times	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz	
	(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)	
2RL075M-6	75±20%	700	5	5	500	25	1	1.0	2RL075-6
2RL090M-6	90±20%	700	5	5	500	50	1	1.0	2RL090-6
2RL145M-6	145±20%	700	5	5	500	100	1	1.0	2RL145-6
2RL150M-6	150±20%	700	5	5	500	100	1	1.0	2RL150-6
2RL230M-6	230±20%	650	5	5	500	100	1	1.0	2RL230-6
2RL250M-6	250±20%	650	5	5	500	100	1	1.0	2RL250-6
2RL300M-6	300±20%	700	5	5	500	100	1	1.0	2RL300-6
2RL350M-6	350±20%	750	5	5	500	100	1	1.0	2RL350-6
2RL400M-6	400±20%	800	5	5	500	100	1	1.0	2RL400-6
2RL470M-6	470±20%	900	5	5	500	250	1	1.0	2RL470-6
2RL600M-6	600±20%	1000	5	5	500	250	1	1.0	2RL600-6
2RL800M-6	800±20%	1200	5	5	500	250	1	1.0	2RL800-6
2RK1000M-6	1000±20%	1600	3	3	300	500	1	1.0	2RK1000-6
2RK1200M-6	1200±20%	1800	3	3	300	500	1	1.0	2RK1200-6
2RK1800M-6	1800±20%	2600	3	3	300	500	1	1.0	2RK1800-6

Electrical Ratings

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.	To meet	
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs.	the specified value	



Recommended Soldering Conditions

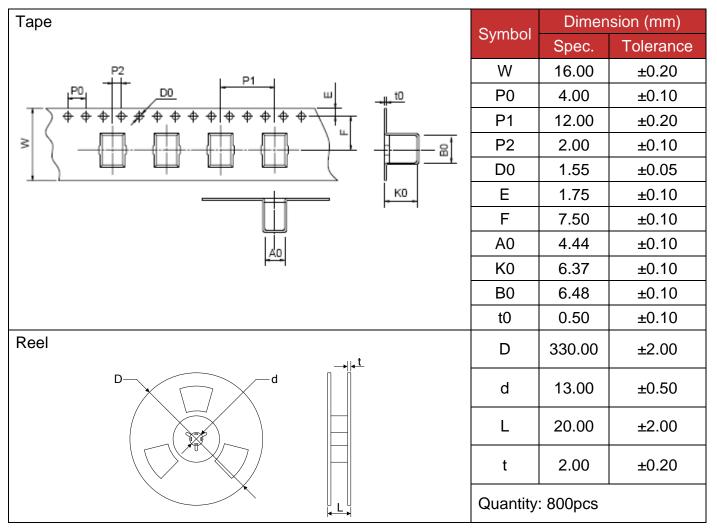




Recommended Conditions

Profile Feature	Pb-Free Assembly		
Average ramp-up rate $(T_L \text{ to } T_P)$	3℃/second max.		
Preheat			
-Temperature Min (T _{S min})	150 ℃		
-Temperature Max (T _{S max})	200 °C		
-Time (min to max) (ts)	60-180 seconds		
T _{S max} to T _L			
-Ramp-up Rate	3℃/second max.		
Time maintained above:			
-Temperature (T _L)	217 ℃		
-Time (t _L)	60-150 seconds		
Peak Temperature (T _P)	260 ℃		
Time within 5 $^\circ\!\mathrm{C}$ of actual Peak Temperature (t_P)	20-40 seconds		
Ramp-down Rate	6℃/second max.		
Time 25°C to Peak Temperature	8 minutes max.		

Packaging



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