

Gas Discharge Tube (GDT) Data Sheet

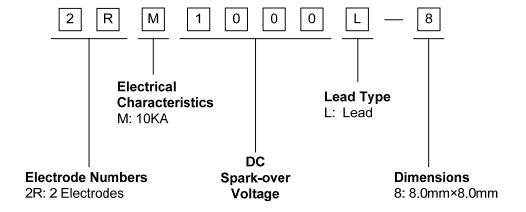
Features

- 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 (≤1.5pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 8.0mm*8.0mm
- Storage and operating temperature: -40 °C ~ +85 °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



Marking

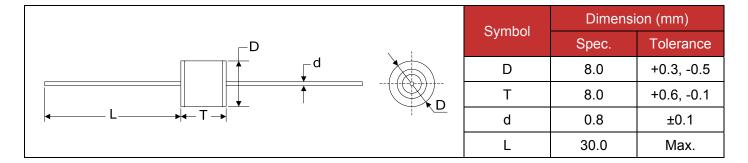
B: BrightKing Logo

2RM1000-8: Device Marking Code

YXXX : Date Code



Dimensions



Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Maximum Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance
	100V/s	1000V/µs	8/20µs 1time	50Hz,1sec	10/1000μs 100A	Test Voltage	(GΩ)	1MHz
	(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)
2RM1000L-8	1000±20%	1900	10	10	100	250	1.0	1.5

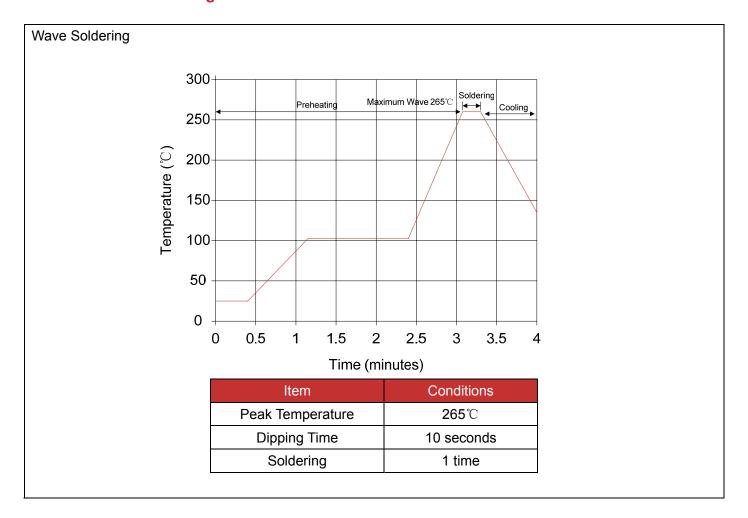
Electrical Ratings

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.		
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs.		
Impulse Discharge Current	Maximum 8/20µs surge current that can be applied between two electrodes, without causing the DC spark-over voltage to change more than 25% from its initial value. Crest value 100 90 20µs Impulse Width	To meet the specified value	
Alternating Discharge Current	· · · · · · · · · · · · · · · · · · ·		
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.		
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz		

Revision: 05-Sep-17



Recommended Soldering Conditions



Packaging

