

# Gas Discharge Tube (GDT) Data Sheet

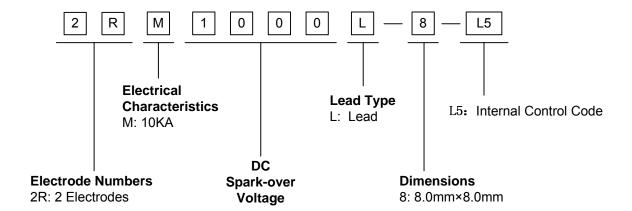
#### **Features**

- 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
- Safety certification: UL: E327997

#### **Applications**

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

#### **Part Number Code**



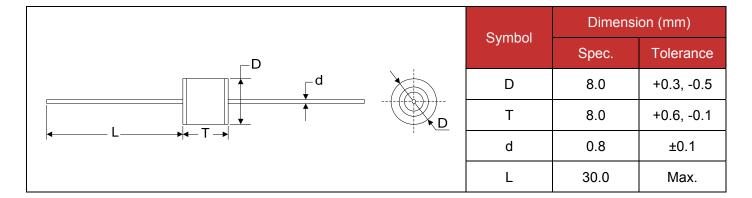
#### **Marking**

B: BrightKing Logo 2RM1000-8: Device Marking Code

YXXX : Date Code



#### **Dimensions**



### **Electrical Characteristics**

Model Number: 2RM1000L-8			Part Number: 2RM1000L-8 –L5					
DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minim Insulat Resista	ion	Maximum Capacitance	Device
100V/s	1000V/µs	8/20µs 1 time	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz	Marking Code
(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)	
1000~1400	2000	10	5	100	250	1.0	1.5	2RM1000-8

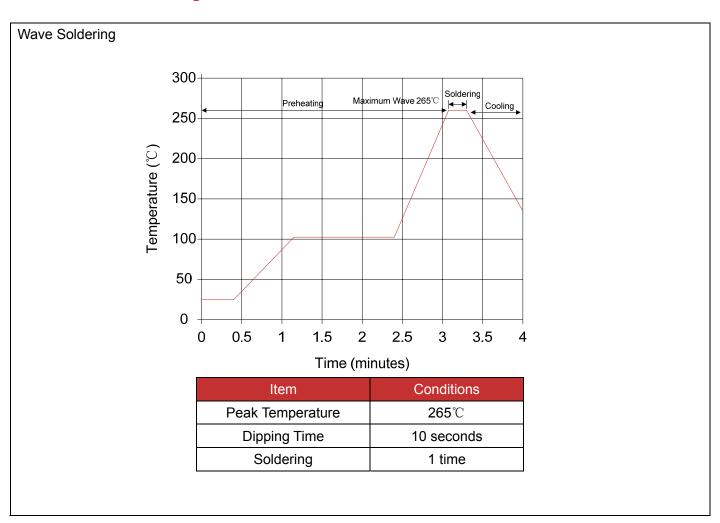
# **Electrical Ratings**

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 10 0 Time Impulse Width	To meet the specified value



Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min. DC spark-over voltage shall not change more than $\pm 25\%$ from its initial value. IR>10 $^8$ ohms	
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	

# **Recommended Soldering Conditions**





## **Packaging**

#### Axial Packing (Bulk)

