Features

- Extremely fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Extremely small size

Applications

- Power lines
- Automotive and Telecommunication
- Computers &Consumer Electronics
- Industrial Electronics

VGT2R600---- GAS DISCHARGE TUBE

General Information

This product is suitable for communication equipments and other electronic equipments for transient over-voltage protection against high voltage and lightning damage.

Standard: GB/T9043-2008《General technical requirements of gas discharge tubes for the over-voltage protection of telecommunications installations》.

Absolute Maximum Ratings

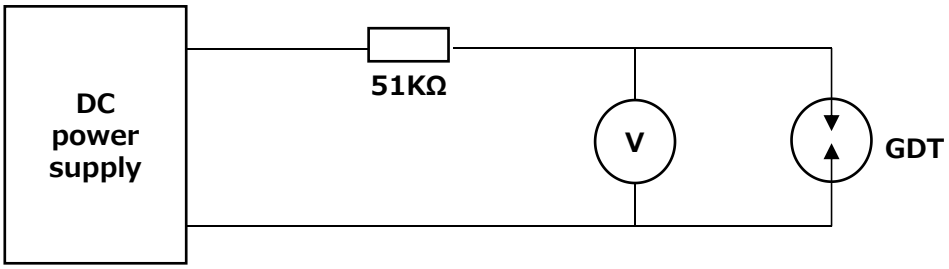
Parameter	Symbol	Value	Unit
Standard	---	GB/T9043-2008	V
Maximum Operating temperature	T_{OPER}	-40 to +90	℃
Maximum Storage temperature	T_{STG}	-55 to +125	℃
Maximum lead temperature for soldering during 10s	T_L	260	℃

Electrical Characteristics (@ T_A = 25 °C Unless Otherwise Noted)

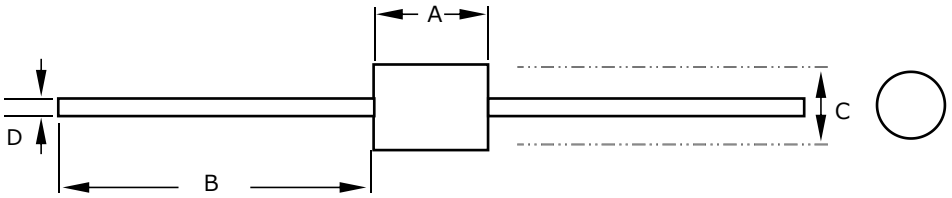
Parameter	Value	Unit
DC Spark-over voltage @100V/s	600±20%	V
Maximum Impulse Spark-over Voltage @1000V/us	≤1300	V
Insulation resistance at DC 250V	≥1	GΩ
Capacitance at 1MHz	≤2	pF
Nominal Impulse Discharge Current	10	KA
Alternating Discharge Current @50Hz,1sec	10	A
Impulse Life @10/1000us,100A	500	times

Test methods

The test circuit is shown in Figure 1. The DC voltage rise speed of test power supply is 100V/s, Discharging current is limited to 5～15mA. The positive and reverse polarity spark-over voltage of product should be tested in discharge inter-electrode.

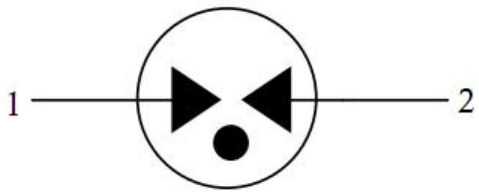


Product Dimensions



Dimension	MM (INCHES)
A	5.80-6.20 (0.228-0.244)
B	28.00 MIN (1.10)
C	5.30-5.70 (0.208-0.224)
D	0.80 (0.031)

Schematic Symbol



Recommendable reflow soldering

Profile Feature	Pb-Free Assembly
Average Ramp-UP Rate (Tsmax to Tp)	3 ℃/secondmax.
Preheat -Temperature Min(Tsmin) -Temperature Max(Tsmax) -Time(Tsmin to Tsmax)	 150 ℃ 200 ℃ 60-180seconds
Time maintained above: -Temperature(TL) -Time(tL)	 217 ℃ 60-150 seconds
Peak/Classification Temperature(Tp)	260℃
Time within 5℃ofactualPeak Temperature(tp)	20-40 seconds
Ramp-Down Rate	6℃/secondmax.
Time 25℃toPeakTemperature	8 minutes max.