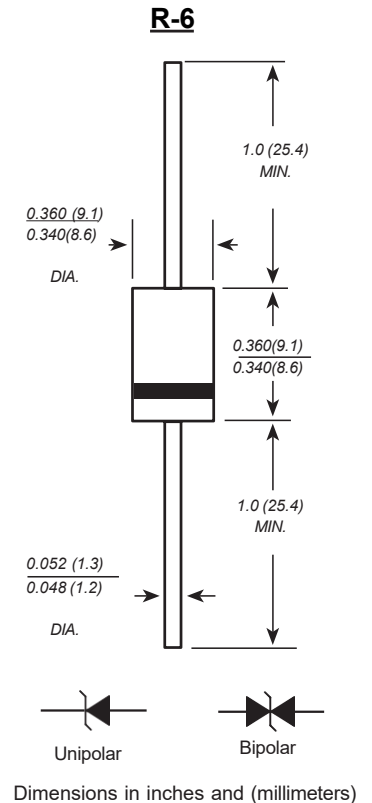


GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

Features

- ◆ 5000w peak pulse power capability
- ◆ Excellent clamping capability
- ◆ Low incremental surge resistance
- ◆ Fast response time: typically less than 1.0ps from 0v to VBR for unidirectional and 5.0ns for bidirectional types.
- ◆ High temperature soldering guaranteed:
265°C/10S/9.5mm lead length at 5 lbs tension



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	VALUE	UNITS
Peak power dissipation	PPPM	Minimum 5000	Watts
Peak pulse reverse current	I _{PPM}	See Table 1	Amps
Steady state power dissipation (Note 2)	P _{M(AV)}	8.0	Watts
Peak forward surge current	I _{FSM}	400	Amps
Maximum instantaneous forward voltage at 100A for unidirectional only (Note 3)	V _F	3.5/5.0	Volts
Operating junction and storage temperature range	T _{STG} , T _J	-55 to + 175	°C

Note:

1. 10/1000μs waveform non-repetitive current pulse, per Fig.3 and derated above T_a=25°C per Fig.2
2. T_L=75°C, lead lengths 9.5mm, Mounted on copper pad area of (20x20mm) Fig.5
3. V_F < 3.5V for devices of V_{BR} ≤ 200V and V_F < 5.0V for devices of V_{BR} ≥ 201V.

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1 -TVS Transients Clamping Waveform



Figure 2 - Peak Pulse Power Rating Curve



Figure 3 - Pulse Derating Curve



Figure 4 - Pulse Waveform



The curve above is for reference only.

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 5 - Typical Junction Capacitance



Figure 6 - Steady State Power Derating Curve



Figure 7 - Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.