

**TRANSIENT VOLTAGE SUPPRESSOR**  
**300 WATT PEAK POWER 1.0 WATT STEADY STATE**

**FEATURES**

- \* Designed for the hood applications
- \* Available in uni-directional only
- \* Glass passivated chip construction
- \* Excellent clamping capability
- \* Low incremental surge resistance
- \* Fast response time: typically less than 1.0ps from 0 Volts to V(BR)
- \* For devices with V(BR) ≥ 10V, ID are typically less than 1.0uA

**MECHANICAL DATA**

- \* Case: Molded plastic black body
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.19 gram

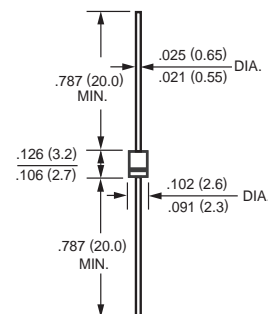
Ratings at 25 °C ambient temperature unless otherwise specified.

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.



**R-1**



Dimensions in inches and (millimeters)

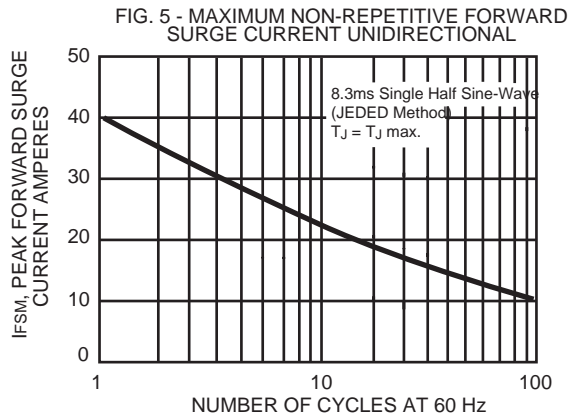
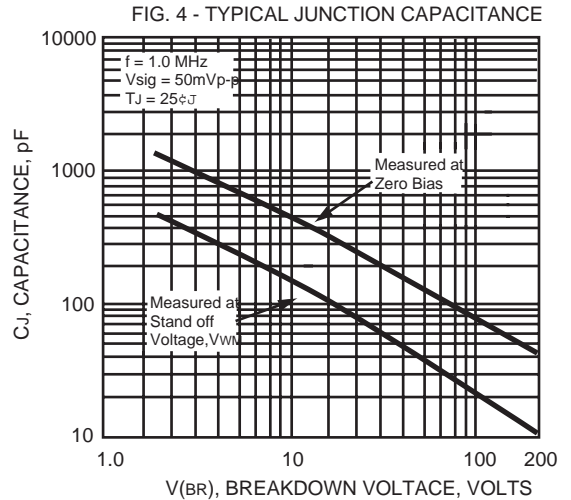
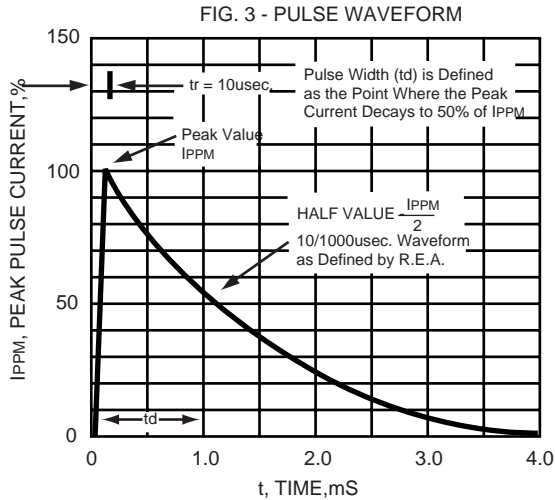
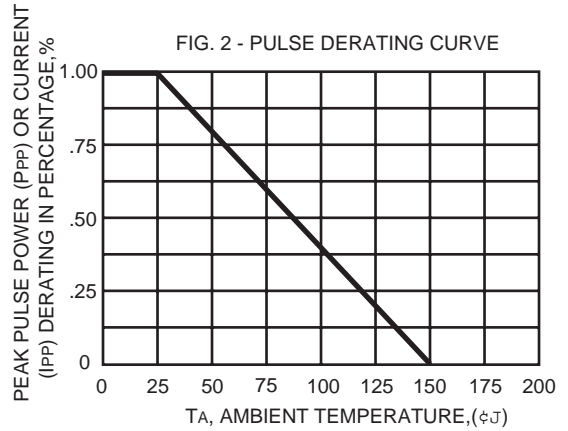
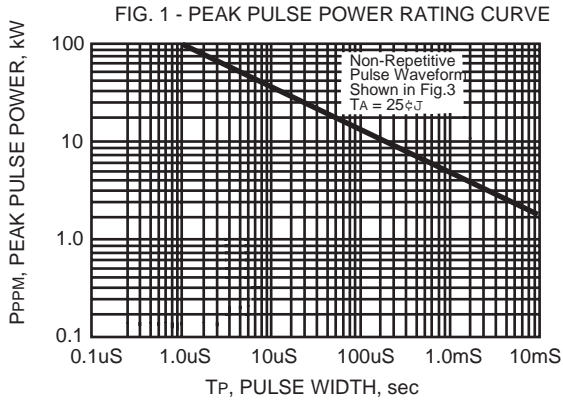
Electrical characteristics apply in uni-directional only

**MAXIMUM RATINGS** (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	VALUE	UNITS
Peak Power Dissipation with a 10/1000uS (Note 1, Fig.1)	PPPM	300	Watts
Peak Pulse Current with a 10/1000uS waveform ( Note 1, 2, Fig.3 )	IPPM	SEE TABLE 1	Amps
Steady State Power Dissipation (Note 2)	PM(AV)	1.0	Watts
Peak Forward Surge Current per Fig.5 (Note 2,4)	IFSM	40	Amps
Maximum Instantaneous Forward Voltage at 25A (Note 4)	VF	3.5	Volts
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	°C

- NOTES : 1. Non-repetitive current pulse, per Fig.3 and derated above TA = 25°C per Fig.2.  
2. Mounted on 0.2 X 0.2" ( 5.0 X 5.0mm ) copper pad to each terminal.  
3. Lead temperature at TL = 75°C  
4. Measured on 8.3mS single half sine-wave or equivalent square wave, duty cycle = 4 pules per minute maximum.  
5. Peak pulse power waveform is 10/1000uS.

# RATING AND CHARACTERISTIC CURVES ( TMPG06-27 )



## TRANSIENT VOLTAGE SUPPRESSORS

300W SERIES TVS DIODES / R-1 300W (TABLE 1)

TYPE	Breakdown Voltage			Reverse Stand off Voltage VWM (Volts)	Maximum Reverse Leakage at VWM Id(uA)	Maximum Peak Pulse Current IPPM (Amps)	Maximum Clamping Voltage at IPPM Vc (Volts)
	VBR (Volts)		@IT (mA)				
	MIN.	MAX.					
TMPG06-27	24.3	29.7	1.0	21.8	1.0	7.6	39.4