

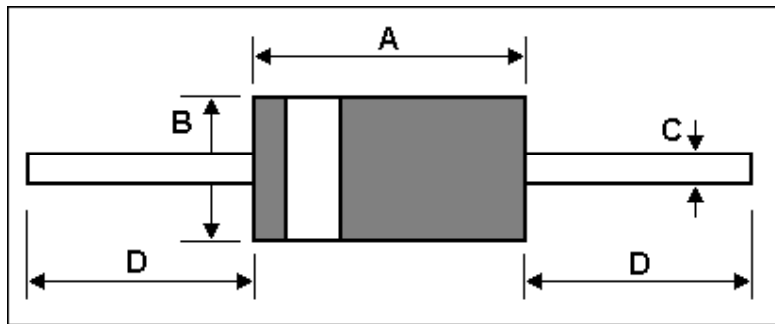
**Electrical Characteristic**

TA = 25°C unless otherwise noted

Symbol	Breakdown voltage VBR (Volts) @ IT (mA)			Working PeakReverse Voltage V <sub>RWM</sub> (Volts)	Maximum Reverse Leakage @V <sub>RWM</sub> IR(uA)	Maximum Clamping Voltage @ I <sub>pp</sub> V <sub>C</sub> (Volts)	Peak Pulse Current with a 10/1000 waveform I <sub>pp</sub> (Amps)
	Min.	Max.	IT				
8KP24(C)A	26.7	29.5	1	24.0	5	38.9	205.7
8KP33(C)A	36.7	40.6	1	33.0	5	53.3	150.1
8KP36(C)A	40.0	44.2	1	36.0	5	58.1	137.7

\* Maximum VF=5.0V @ 100A, 8.3ms sine wave

**Dimension**



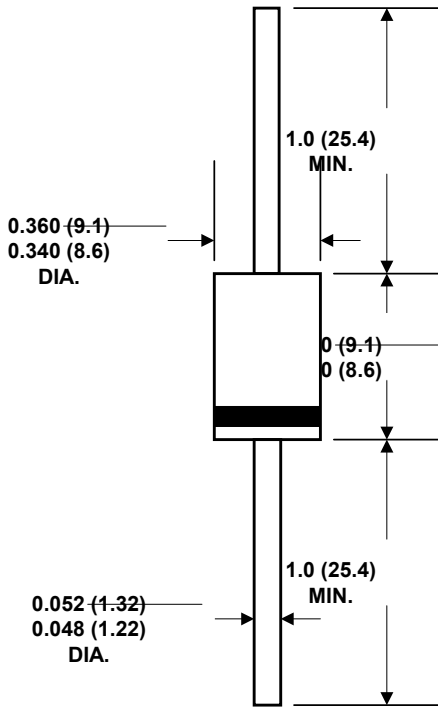
R - 6		UNIT
A	0.340-0.360	inch
	8.64-9.14	mm
B	0.340-0.360	inch
	8.64-9.14	mm
C	0.048-0.052	inch
	1.22-1.32	mm
D	min 1.000	inch
	min 25.40	mm



**GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR**

**8000 Watt Peak Pulse Power**

**Case Style P600**



Dimensions in inches and (millimeters)

**FEATURES**

- Plastic package
- Glass passivated chip junction
- 8000W Peak Pulse Power capability on 10/1000  $\mu$ s waveform
- Excellent clamping capability
- Peperition rate(duty cycle):0.05%
- Low incremental surge resistance

Typical IR less than 1  $\mu$ A for  $V_{br} \geq 10V$

(9.5mm) lead length, 5lbs., (2.3kg) tension

**MECHANICAL DATA**

- Case:** Molded plastic over glass passivated junction
- Terminal:** Plated Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity:** Color band denotes positive end (cathode) except Bipolar
- Mounting Position:** Any
- Weight:** 0.07ounce, 2.1gram

**DEVICES FOR BIPOLAR APPLICATION**

**MAXIMUM RATINGS AND CHARACTERISTICS**

Ratings at 25  $^{\circ}$ C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000 $\mu$ s waveform (Note 1,FIG.1)	$P_{PPM}$	Minimum 8000	Watts
Peak Pulse Current of on 10/1000 $\mu$ s waveform (Note 1,FIG.3)	$I_{PPM}$	SEE TABLE 1	Amps
Steady State Power Dissipation at $T_L = 75^{\circ}$ C, Lead lengths.375",(9.5mm) (Note 2)8	$P_M (AV)$	8	Watts
Peak Forward Surge Current,8.3ms Single Half Sine-Wave Superimposed on Rated Load,(JEDEC Method) (Note 3)	$I_{FSM}$	400	Amps
Operating junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to + 175	

Notes :

- 1.Non-repetitive current pulse , per Fig. 3 and derated above  $T_A = 25^{\circ}$ C per Fig. 2 .
- 2.Mounted on Copper Pad area of 0.8 $\times$ 0.8" (20 $\times$ 20mm) per Fig. 5.
- 3.8.3ms single half sine-wave , or equivalent square wave, Duty cycle = 4 pulses per minutes maximum.

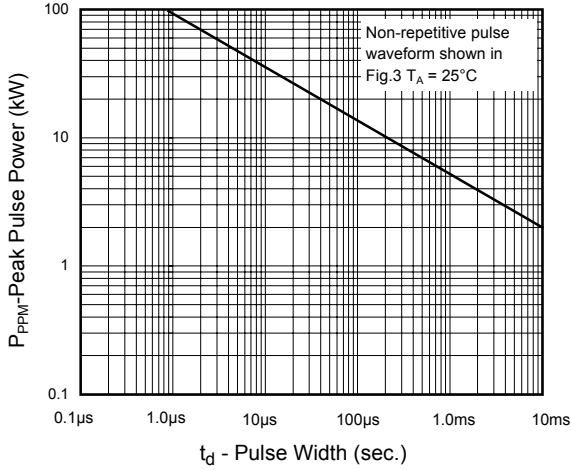


### RATINGS AND CHARACTERISTIC CURVES

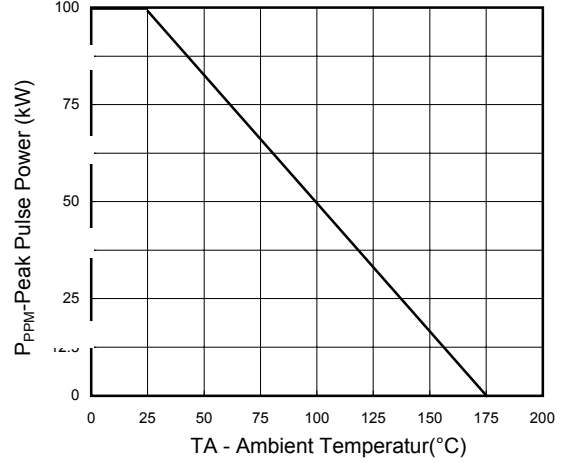
#### Ratings and

#### Characteristic Curves ( $T_A=25$ unless otherwise noted)

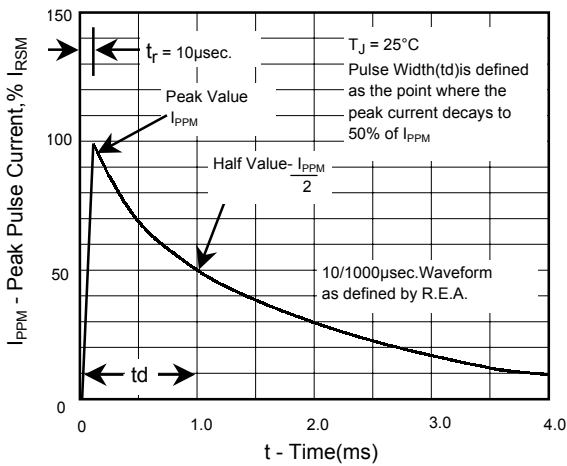
**Fig. 1 - Peak Pulse Power Rating Curve**



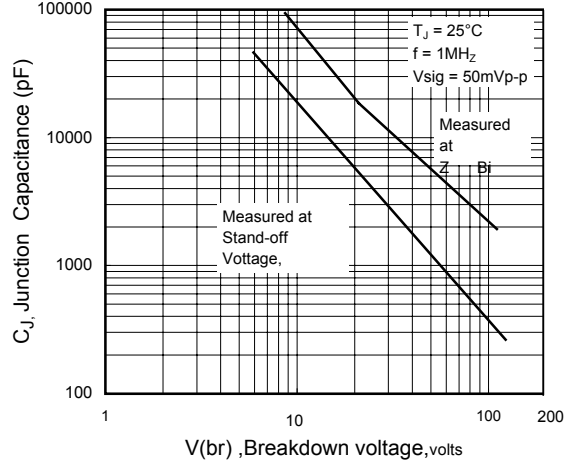
**Fig.2 - Pulse Derating Curve**



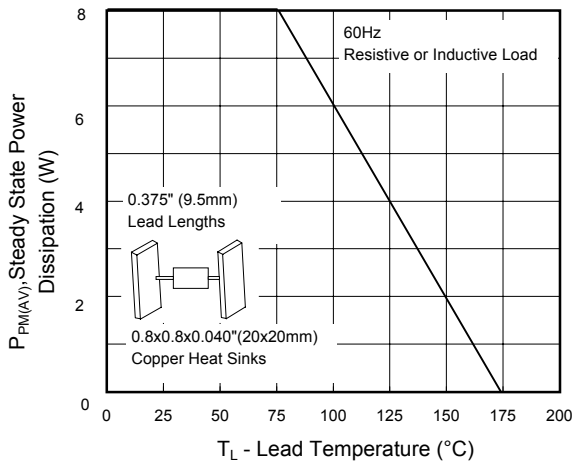
**Fig.3 - Pulse Waveform**



**Fig. 4 - Typical Junction Capacitance**



**Fig. 5 - Steady State Power Derating Curve**



**Fig.6 - Maximum Non-repetitive Forward Surge current**

