

GPP TRANSIENT VOLTAGE SUPPRESSOR
3000 WATT PEAK POWER 8.0 WATTS STEADY STATE

FEATURES

- * Plastic package has underwriters laboratory
- * Glass passivated chip construction
- * 3000 watt surge capability at 1ms
- * Excellent clamping capability
- * Low zener impedance
- * Fast response time

Ratings at 25 °C ambient temperature unless otherwise specified.

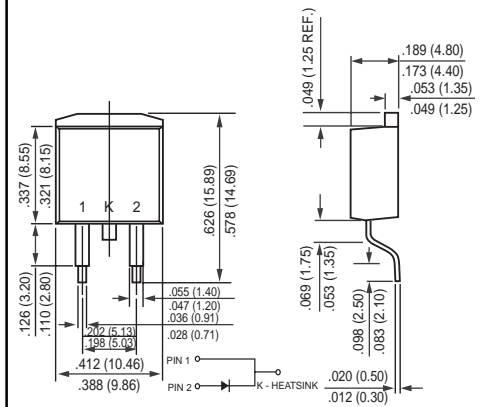
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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



D2PAK



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

RATINGS	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation with a 10/1000uS waveform (Note 1, FIG.1)	PPPM	Minimum 3000	Watts
Peak Pulse Current with a 10/1000uS waveform (Note 1, Fig. 3)	IPPM	SEE TABLE 1	Amps
Steady State Power Dissipation at TL = 75°C lead lengths 0.375" (9.5mm) (Note 2)	PM(AV)	8.0	Watts
Peak Forward Surge Current, 8.3ms single half sine wave-superimposed on rated load(JEDEC METHOD) (Note 3)	IFSM	250	Amps
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 copper pad area of 0.8 X 0.8" (20 X 20mm) per Fig. 5
 3. Measured on 8.3mS single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

RATING AND CHARACTERISTIC CURVES (3KP22AS)

FIG. 1 - PEAK PULSE POWER RATING CURVE

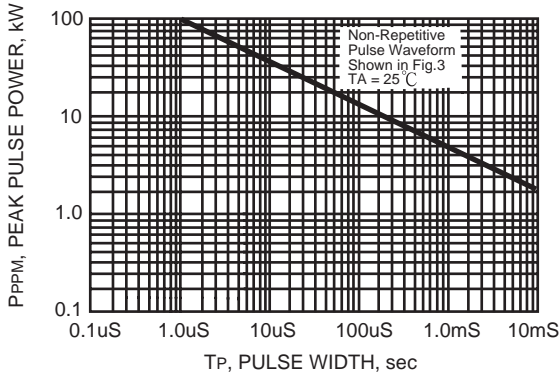


FIG. 2 - PULSE DERATING CURVE

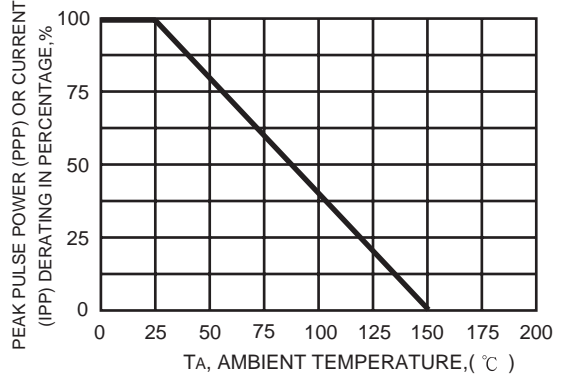


FIG. 3 - PULSE WAVEFORM

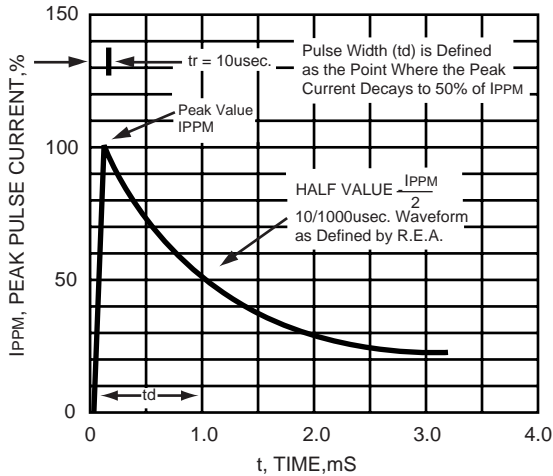


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

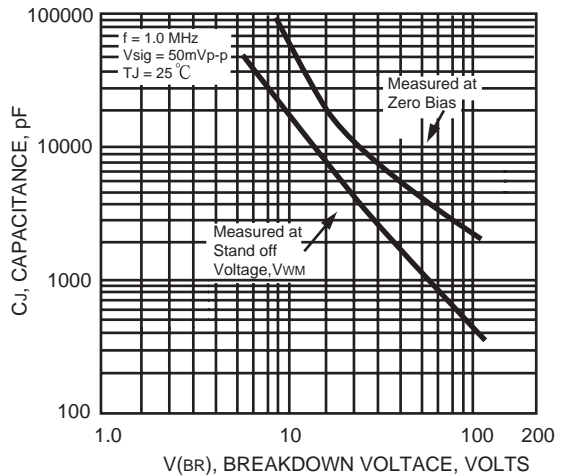


FIG. 5 - STEADY STATE POWER DERATING CURVE

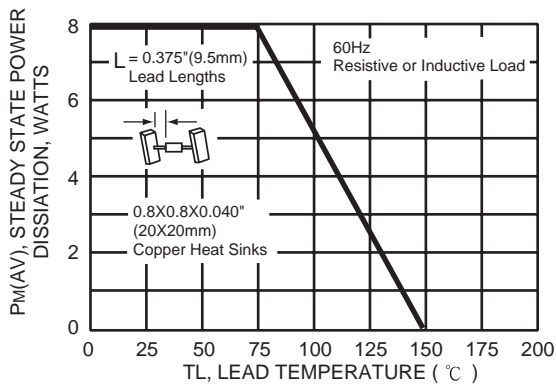
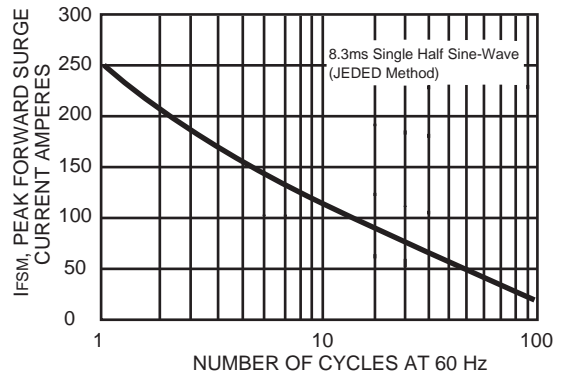


FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT UNIDIRECTIONAL



TRANSIENT VOLTAGE SUPPRESSORS

3000W SERIES TVS DIODES / D2PAK 3000W (TABLE 1)

TYPE	Breakdown Voltage		@IT (mA)	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)						
	MIN.	MAX.					
3KP22AS	24.40	26.90	5.0	22	10	84.40	35.50