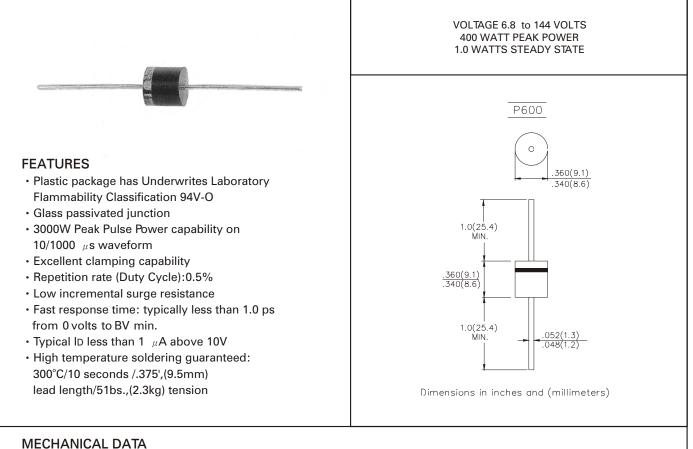
# **3KP SERIES**

## GLASS PASSIVATED JUNCTION TRAN-SIENT VOLTAGE SUPPRESSOR





- Case:Molded plastic over glass passivated junction
- Terminals:Plated Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity:Color band denote positive end (cathode)
- Mounting Position:Any
- Weight: 0.07 ounces, 2.1gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on 10/1000 $\mu$ s waveform (NOTE 1, Fig. 1)	Рррм	Minimum 3000	Watts
Peak Pulse Current of on 10/1000 $\mu$ s waveform (NOTE 1,Fig.3)	Рррм	SEE TABLE 1	Amps
Steady Power Dissipation at TL=75°C Lead Lengths .375",(9.5mm)(NOTE 2)	P <sub>M</sub> (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 Junction and Storage Temperature Range	Tj, Tstg	-55 to + 175	°C

Notes: 1. Non-repetitive current pulse, per Fig.3 and derated above TA=25°C per Fig.2

2. Mounted on Copper Leaf area of 0.79 in<sup>2</sup> (20mm<sup>2</sup>)

3. Measured on 8.3ms single half sine-wave or equivalent square wave,

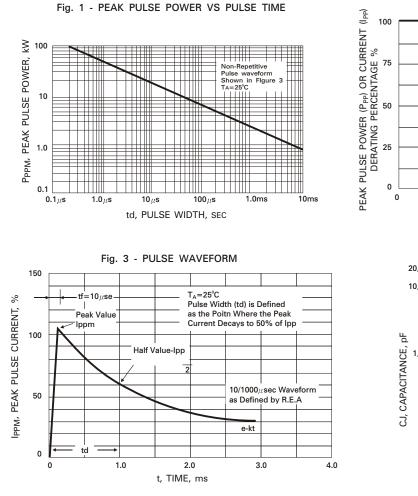
Duty Cycle=4 pulses per minuters maximum.

## **3KP SERIES**

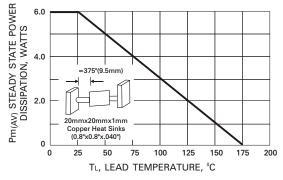
### GLASS PASSIVATED JUNCTION TRAN-SIENT VOLTAGE SUPPRESSOR



RATING AND CHARACTERISTICS CURVES 3KP SERIES







25 50 75 100 125 150 175 200 TA, AMBIENT TEMPERATURE, °C Fig. 4 - TYPICAL CAPACITANCE VS STAND-OFF VOLTAGE 20,000 TJ=25°C f=1.0MHz 10.000 Vsig=50mVp-p Measursd at Zero Bias 1,000 Measursd at Stand-Off Voltage(V MW) ------100 10 2.0 1.0 20 100 200 400 10 V(WM), REVERSE STAND-OFF VOLTAGE, VOLTS

Fig. 6 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

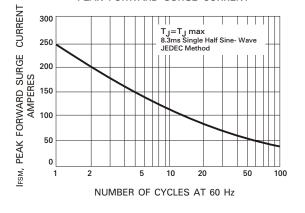


Fig. 2 - PULSE DERATING CURVE