PG600A THRU PG600K

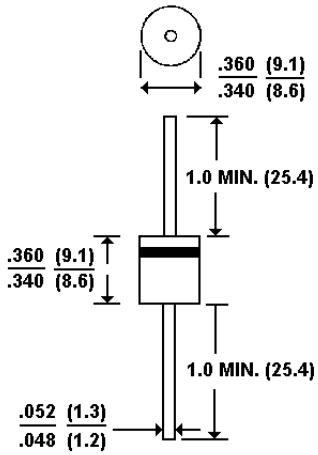
GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE - 50 to 800 Volts CURRENT - 6.0 Amperes

FEATURES

- High surge current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction in P600 package
- High current operation 6.0 Amperes @ T_A=75 ¢J
- Exceeds environmental standards of MIL-S-19500/228

P600



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, P600

Terminals: axial leads, solderable per MIL-STD-202, Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.07 ounce, 2.1 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

*@ T_A=25 ¢J unless otherwise specified. Single phase, half-wave,60 Hz, resistive or inductive load.

**All values except Maximum RMS Voltage are registered JEDEC parameters.

	PG600A	PG600B	PG600D	PG600G	PG600J	PG600K	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current at T_A=75 ¢J	6.0						A A
Maximum Overload Surge Current at 1 cycle (NOTE 1)	300						A
Maximum Forward Voltage at 6.0 ADC	1.0						V
Maximum Full Load Reverse Current Full Cycle Average at 25 ¢J	10						£gADC
Maximum DC Reverse Current at Rated DC Blocking Voltage and 100 ¢J	0.3						mADC
Typical Junction capacitance (Note 2) CJ	150.0						pF
Typical Thermal Resistance (Note 3) R £KJA Typical Thermal Resistance (Note 3) R £KJL	20.0 4.0						¢J/W ¢J/W
Operating Temperature Range	-55 to +150						¢J
Storage Temperature Range	-55 to +150						¢J

NOTES:

1. Peak forward surge current, per 8.3ms single half-sine-wave superimposed on rated load(JECED method)
2. Measured at 1 MHZ and applied reverse voltage of 4.0 volts
3. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B. mounted with 1.1×1.1(30×30mm) copper pads

RATING AND CHARACTERISTIC CURVES

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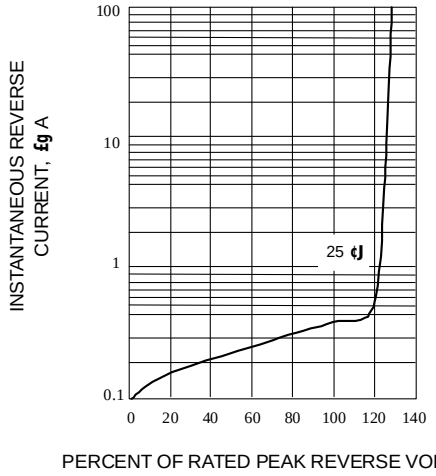

Fig. 1-TYPICAL REVERSE CHARACTERISTICS

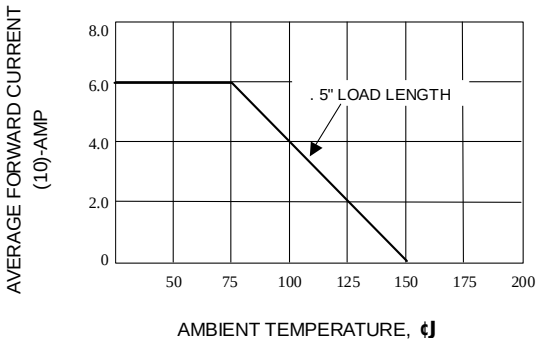

Fig. 2-FORWARD DERATING CURVE

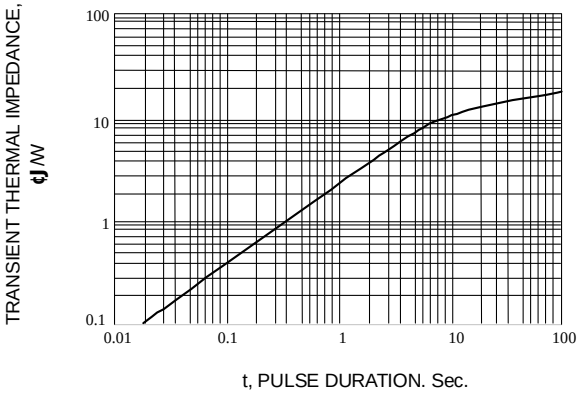

Fig. 3-TYPICAL TRANSIENT THERMAL IMPEDANCE

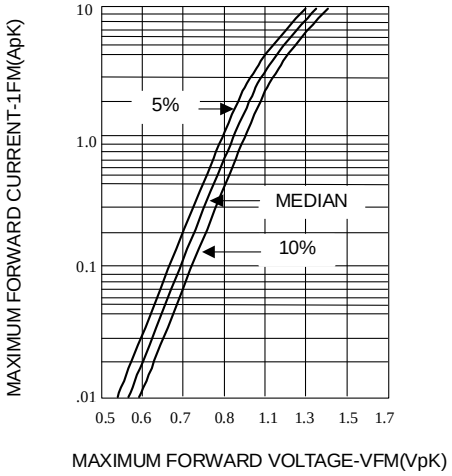

Fig. 4-TYPICAL FORWARD CHARACTERISTICS

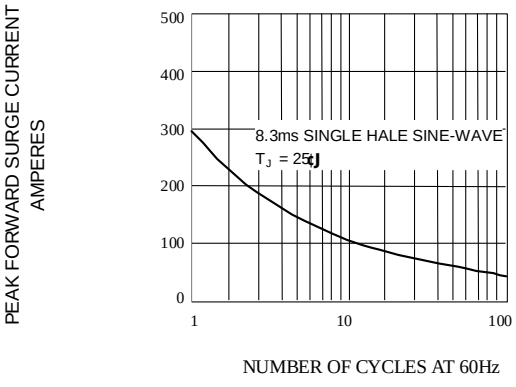

Fig. 5-PEAK FORWARD SURGE CURRENT