

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 @ $T_A=75^{\circ}\text{C}$
- Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

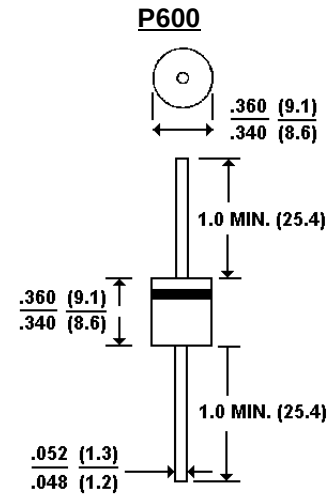
Case: Molded plastic, P600

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

*@ $T_A=25^{\circ}\text{C}$ 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 $T_A=75^{\circ}\text{C}$	6.0						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°C	10						μA
Maximum DC Reverse Current at Rated DC Blocking Voltage and 100°C	0.3						mADC
Typical Junction capacitance (Note 2) C_J	150.0						pF
Typical Thermal Resistance (Note 3) $R_{\theta KJA}$	20.0						$^{\circ}\text{C/W}$
Typical Thermal Resistance (Note 3) $R_{\theta KJL}$	4.0						$^{\circ}\text{C/W}$
Operating Temperature Range	-55 to +150						$^{\circ}\text{C}$
Storage Temperature Range	-55 to +150						$^{\circ}\text{C}$

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 1.1x1.1(30x30mm) copper pads

RATING AND CHARACTERISTIC CURVES PG600A THRU PG600K

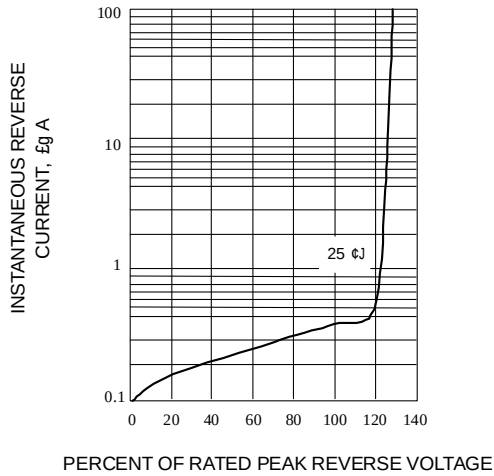


Fig. 1-TYPICAL REVERSE CHARACTERISTICS

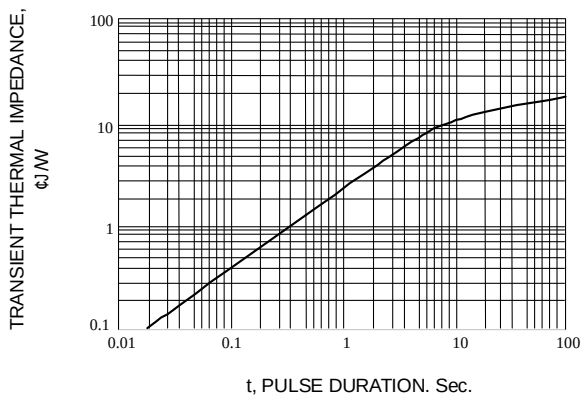


Fig. 3-TYPICAL TRANSIENT THERMAL IMPEDANCE

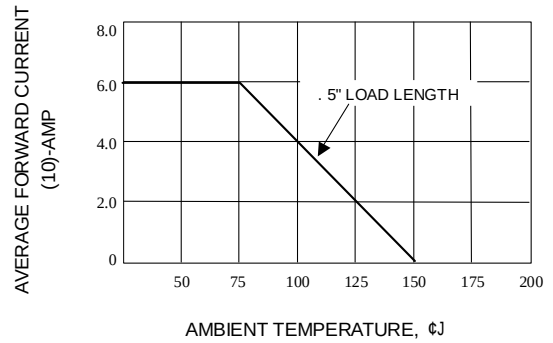


Fig. 2-FORWARD DERATING CURVE

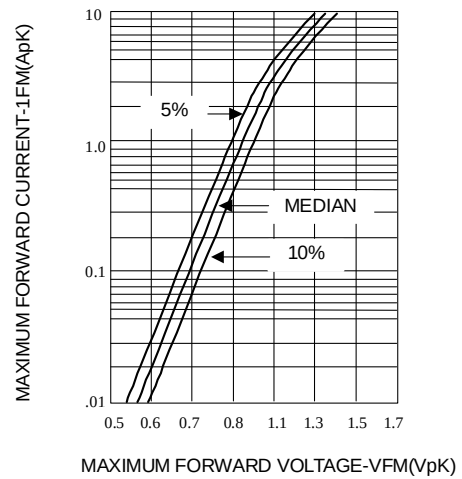


Fig. 4-TYPICAL FORWARD CHARACTERISTICS

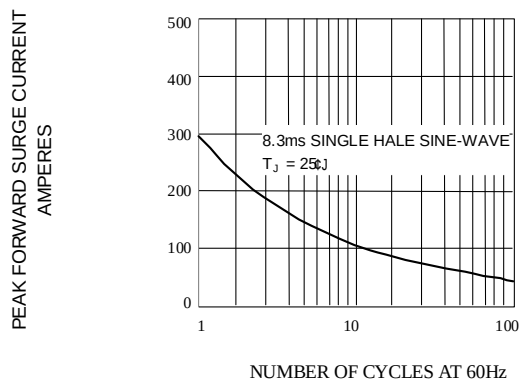


Fig. 5-PEAK FORWARD SURGE CURRENT