

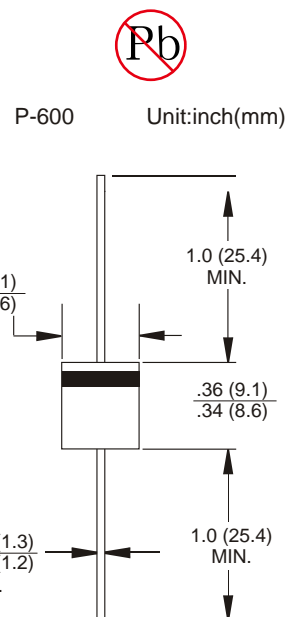
HIGH CURRENT PLASTIC SILICON RECTIFIERS VOLTAGE- 50 to 1000Volts CURRENT - 6.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratories
- Flammability Classification 94V-0 utilizing
- Flame Retardant Epoxy Molding Compound.
- High current capability .
- Exceeds environmental standards of MIL-S-19 500/2 28
- Low leakage .
- High temperature soldering : 260 °C / 10 seconds at terminals
- Pb free product at available:99% Sn above meet RoHS environment substance directive request

MECHANICAL DATA

- Case: Molded plastic, P600
- Terminals: Axial leads, solderable to MIL-STD-202, Method 208
- Polarity: Color Band denotes cathode
- Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60 Hz.

	SYMBOLS	P600A	P600B	P600D	P600G	P600J	P600K	P600M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TA=55°C	I(AV)	6.0							A
Maximum Overload Surge Current at 1cycle (Note 1)	IFSM	400							A
Maximum Forward Voltage at 6.0A DC	VF	1.00							V
Maximum DC Reverse Current at Rated DC Blocking Voltage TA=25°C	IR	10.0							µA
Maximum DC Reverse Current at Rated DC Blocking Voltage TA=100°C		1.0							mA
Typical Junction capacitance (Note 2)	CJ	150							PF
Typical Junction Resistance(Note 3)	RθJA	20.0							°C/W
	RθJL	4.0							
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

NOTES:

1. Peak forward surge current, per 8.3ms single half-sine-wave superimposed on rated load (JEDEC 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) P.C.B. mounted with 1.0 x 1.0 (30 x 30mm) copper pads.

RATING AND CHARACTERISTIC CURVES

P600A ~ P600M

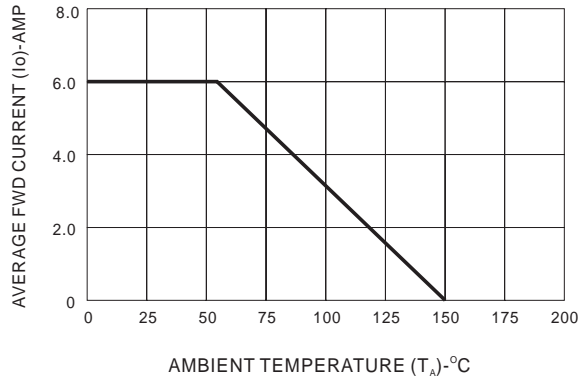


Fig. 1 - FORWARD DERATING CURVE

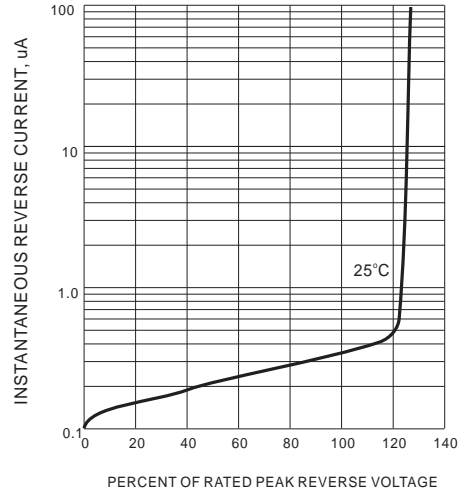


Fig. 2 TYPICAL REVERSE CHARACTERISTICS

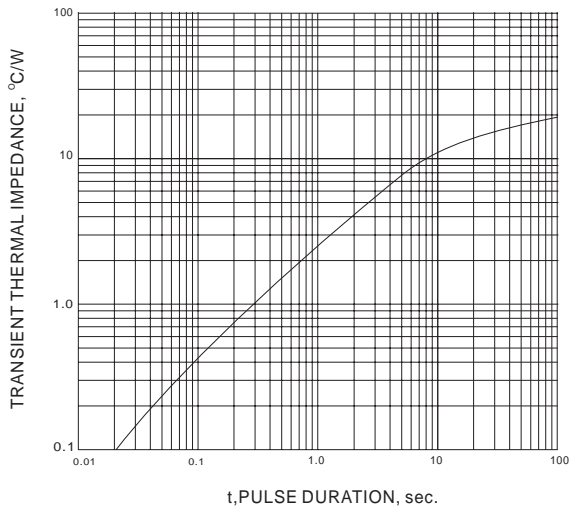


Fig. 3 - TYPICAL TRANSIENT THERMAL IMPEDANCE

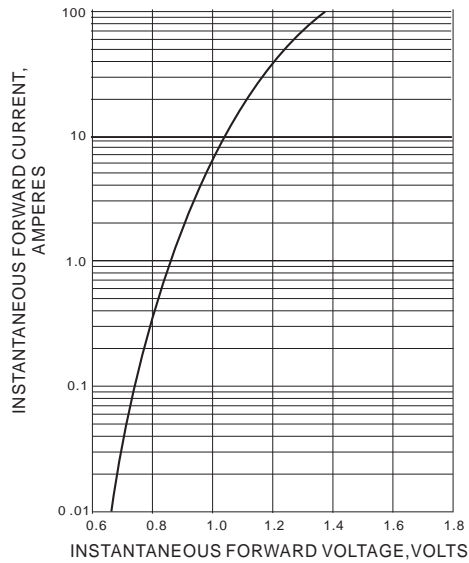


Fig. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

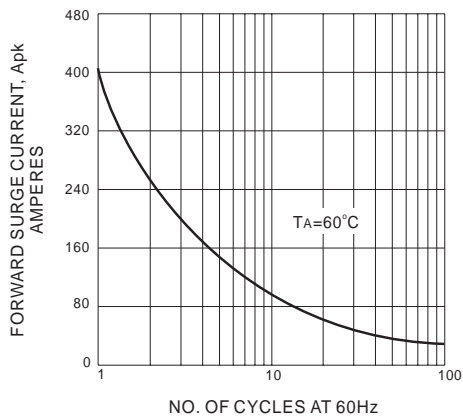


Fig. 5 - MAXIMUM OVERLOAD SURGE CURRENT