



P600A~P600M

HIGH CURRENT PLASTIC SILICON RECTIFIERS

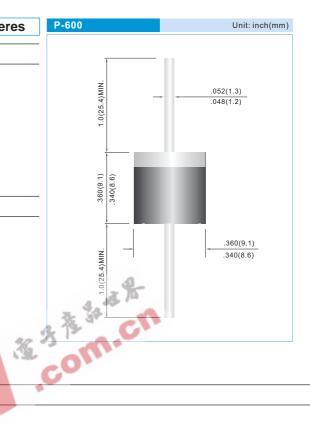
VOLTAGE 50 to 1000 Volts CURRENT 6.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- High current capability.
- Exceeds environmental standards of MIL-S-19500/228
- · Low leakage.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: Molded plastic, P-600
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode
- Mounting Position: Any
- Weight: 0.07 ounce, 2.1 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	P600A	P600B	P600D	P600G	P600J	P600K	P600M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_{\rm A}$ =55°C	I _{F(AV)}	6.0						А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method) (Note 1)	I _{FSM}	400						А	
Maximum Forward Voltage at 6.0A	V _F	1.0						V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	10 1000							uA
Typical Junction capacitance (Note 2)	C _J		150						
Typical Thermal Resistance(Note 3)	R _{eJA} R _{eJL}	20 4.0							°C / W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 TO +150							°C

- 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.

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RATING AND CHARACTERISTIC CURVES

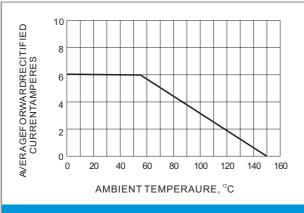


Fig.1- FORWARD CURRENT DERATING CURVE

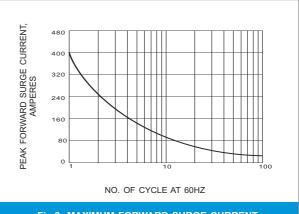
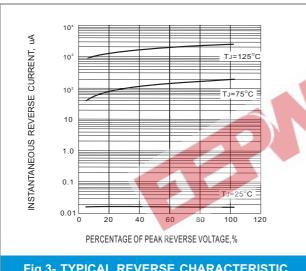


Fig.2- MAXIMUM FORWARD SURGE CURRENT





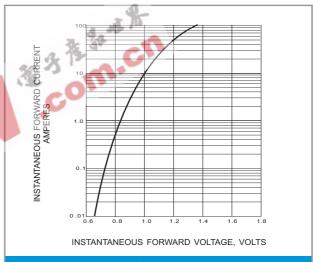


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

LEGAL STATEMENT

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