TOP ONE SEMI CONDUCTOR

PLASTIC SILICON RECTIFIER

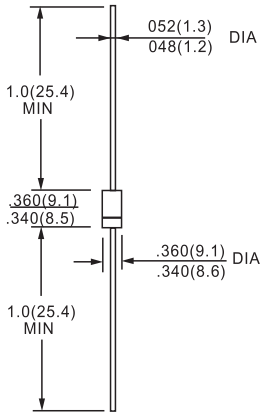
P600A THRU P600M

50V-1000V 6.0A

FEATURES

- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

R-6



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case:Molded plastic use UL 94V-0 recognized Flame retardant epoxy
- Terminals:Axial leads, solderable per MIL-STD-202, method 208
- Polarity:Color band denotes cathode
- Mounting Position:Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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Ratings at 25°C ambient temperature unless otherwise specified.
Signle phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNITS
	P600A	P600B	P600D	P600G	P600J	P600K	P600M	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, .375", (9.5mm) Lead Length at T_A =60°C	6.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave	350							A
Maximum Forward Voltage at 6.0A Peak	1.0							V
Maximum Reverse Current. Rated DC Blocking Voltage	10							μA
Maximum Full Load Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length at T_A =55°C	100							μA
Typical Junction Capacitance (Note 1)	60							pF
Operating and Storage Tempeature Range	-65 to +175							°C

Notes : 1. Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

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RATINGS AND CHARACTERISTIC CURVES P600A THRU P600M

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

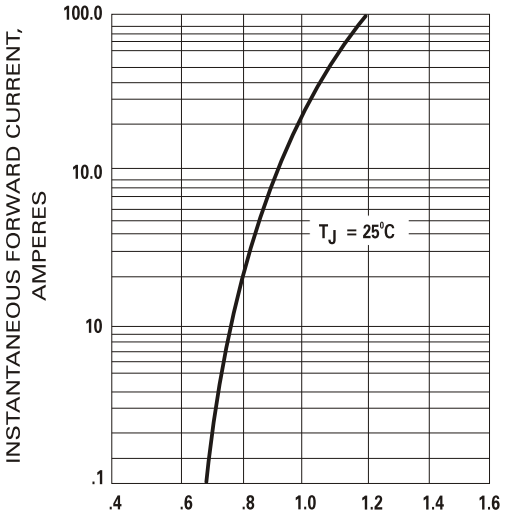

Fig. 2 - PEAK FORWARD SURGE CURRENT

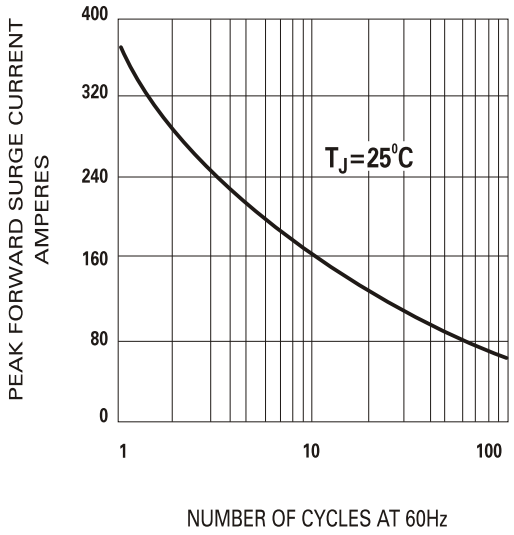

Fig. 3 - FORWARD CURRENT DERATING CURVE

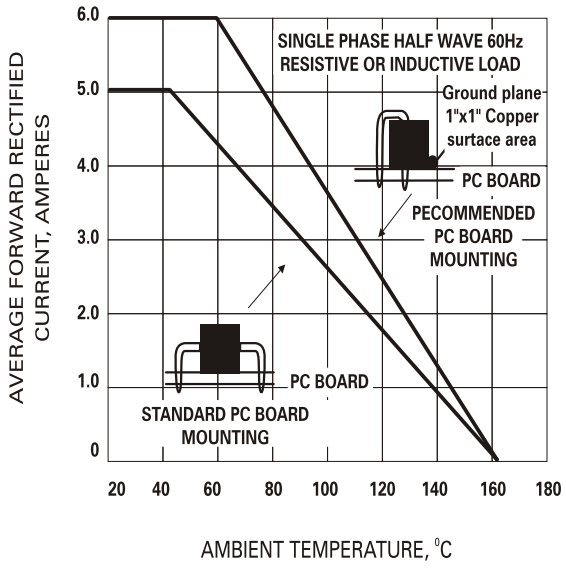

Fig. 4 - TYPICAL JUNCTION CAPACITANCE