

# P600A THRU P600M

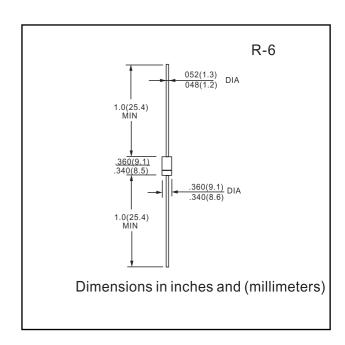
50V-1000V 6.0A

#### **FEATURES**

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

#### 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	٧
Maximum RMS Voltage	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current, .375", (9.5mm) Lead Length at T <sub>A</sub> =60°C	6.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave	350							Α
Maximum Forward Voltage at 6.0A Peak	1.0							٧
Maximum Reverse Current. Rated DC Blocking Voltage	10							μΑ
Maximum Full Load Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length at T <sub>A</sub> =55°C	100							μΑ
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

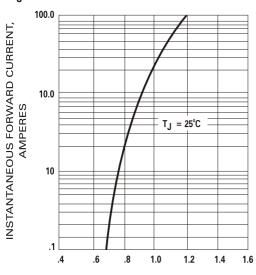


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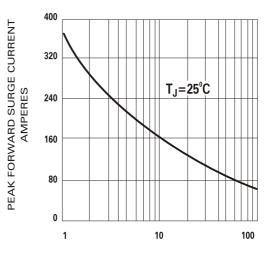
## RATINGS AND CHARACTERISTIC CURVES P600A THRU P600M

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 2 - PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

Fig. 3 - FORWARD CURRENT DERATING CURVE

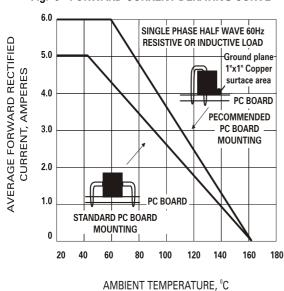
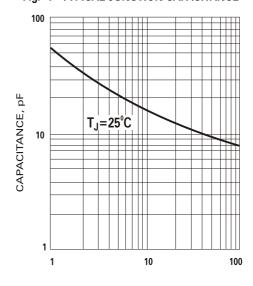


Fig. 4 - TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, VOLTS