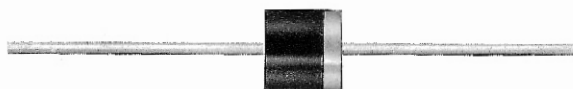


P600 SERIES 6A SERIES

PLASTIC SILICON RECTIFIER



**CHENG-YI
ELECTRONIC**



FEATURES

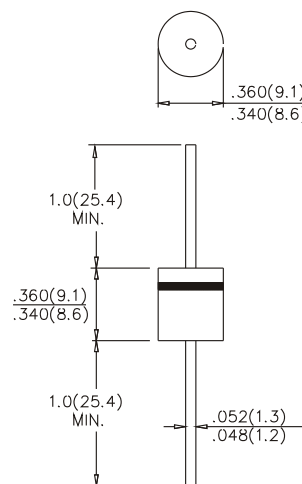
- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

- Case: Mold 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

VOLTAGE RANGE 50 TO 1000 Volts
CURRENT 6.0 Amperes

P600



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single 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 $T_A = 60^\circ\text{C}$	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 $T_A = 55^\circ\text{C}$	100							μA
Typical Junction Capacitance (Note 1)	60							pF
Operating and Storage Temperature Range	-65 to +175							$^\circ\text{C}$

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

P600 SERIES 6A SERIES

PLASTIC SILICON RECTIFIER



CHENG-YI
ELECTRONIC

RATING AND CHARACTERISTICS CURVES

P600 SERIES

6A SERIES

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

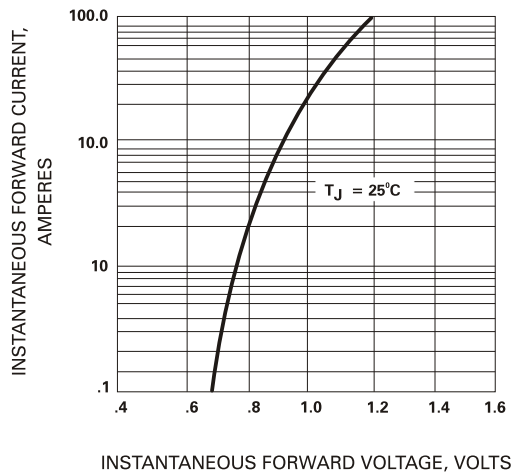


Fig. 2 - PEAK FORWARD SURGE CURRENT

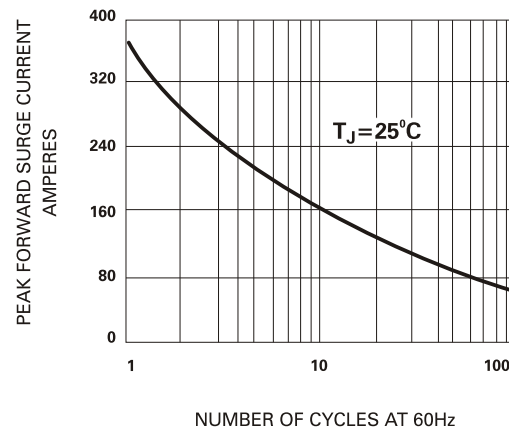


Fig. 3 - FORWARD CURRENT DERATING CURVE

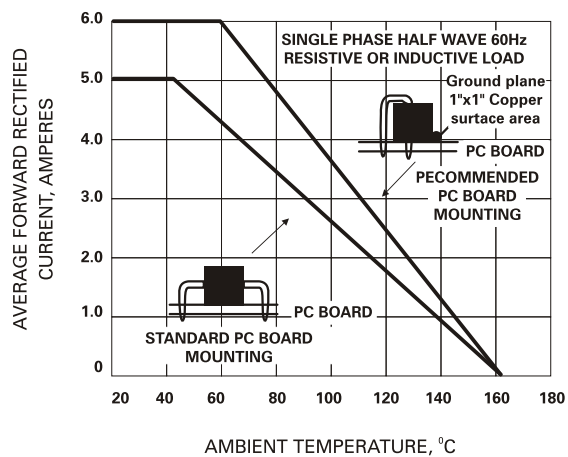


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

