

6A05/P600A THRU 6A10/P600M

TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 6.0A

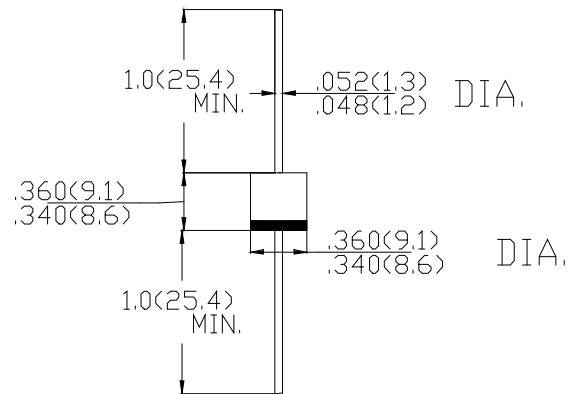
FEATURES

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

MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 2.08 grams

R-6



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%.

		SYMBOL	P600A	P600B	P600D	P600G	P600J	P600K	P600M	units
			6A05	6A1	6A2	6A4	6A8	6A8	6A10	
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 rectified Current at T _A =75°C		I_o	6.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I_{FSM}	250							A
Maximum Instantaneous forward Voltage at 6.0A DC		V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25°C	I_R	10							μA
	@ T _A =100°C		500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T _L =75°C			50							
Typical Junction Capacitance (Note)		C_J	150							pF
Typical Thermal Resistance		R_{θJA}	10							°C/W

Notes: Measured at 1MHz and applied reverse voltage of 4.0 volts