

# 6A05/P600A THRU 6A10/P600M

## TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 6.0A

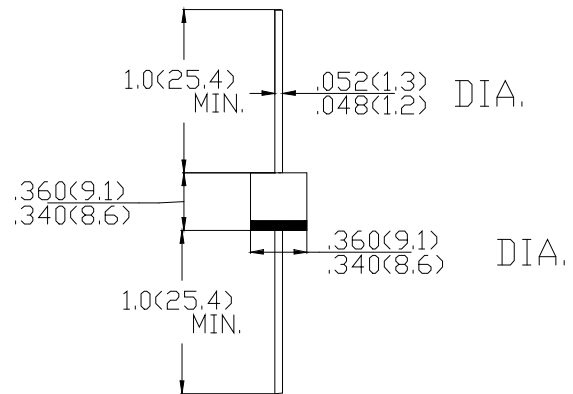
### FEATURES

- 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 $T_A=75^\circ\text{C}$	$I_o$	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	$I_R$	@ $T_A=25^\circ\text{C}$	10							$\mu\text{A}$
		@ $T_A=100^\circ\text{C}$	500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at $T_L=75^\circ\text{C}$		50								
Typical Junction Capacitance (Note)	$C_J$	150							pF	
Typical Thermal Resistance	$R_{\theta JA}$	10							$^\circ\text{C/W}$	

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