

6A05M THRU 6A10M

TECHNICAL SPECIFICATIONS OF SILICON RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 6.0A

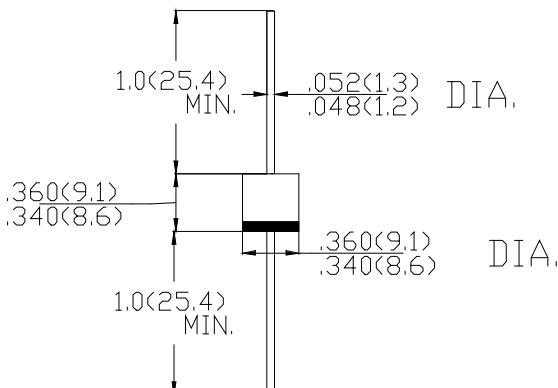
FEATURES

- 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 ELECTRONICAL 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	6A05M	6A1M	6A2M	6A4M	6A8M	6A8M	6A10M	units
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 @ T _A =25°C at Rated DC Blocking Voltage	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