



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

6A05 THRU 6A10

**VOLTAGE RANGE
CURRENT**

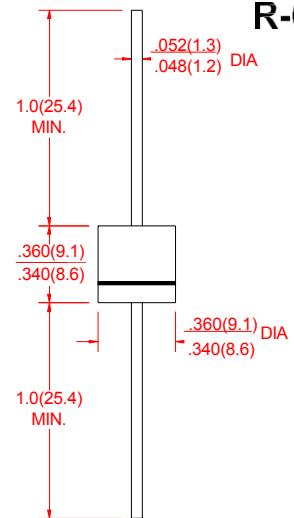
**50 to 1000 Volts
6.0 Ampere**

FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.07 ounce, 2.0 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Dimensions in inches and (millimeters)

- 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%

	SYMBOLS	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T _A = 60°C	I _(AV)						6.0		Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}						300		Amps
Maximum Instantaneous Forward Voltage @ 6.0A	V _F					0.95			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	I _R	T _A = 25°C				10			µAmps mAmps
						1.0			
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T _L =105°C	I _{R(AV)}					1.0			mAmps
Typical Junction Capacitance (Note 1)	C _J					150			pF
Typical Thermal Resistance (Note 2)	R _{θJA}					10			°C/W
Operating Junction Temperature Range	T _J , T _{STG}					-55 to +150			°C

Notes:

1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V Volts.
2. Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted with 1.1"× 1.1"(30×