

Voltage Range - 50 to 1000 V Forward Current - 6 Ampere

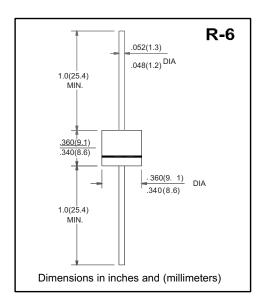
AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

FEATURES

- Low cost construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 secods/.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: 0.0070 ounce, 0.20 grams



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%.

PARAMETER		SYMBOLS	P600A	P600B	P600D	P600G	P600J	P600K	P600M	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 $^{\circ}$ C		I _(AV)	6.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	400							Amps
Maximum Instantaneous Forward Voltage @ 6.0A		V_{F}	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	T _A = 25 °C	I_R	10							μА
	$T_A = 100$ °C		1.0							
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T _L =105°C		$I_{R(AV)}$	150							mA
Typical Junction Capacitance (Note 1)		C_{J}	150							pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	10							°C/W
Operating Junction Temperature Range		T_{J}	(-55 to +150)							°C
Storage Temperature Range		T_{STG}	(-55 to +150)							$^{\circ}$

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 $1.1"\times1.1"$ (30×30 mm)copper heat sink.

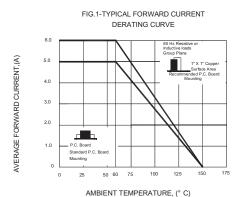
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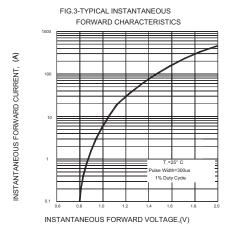


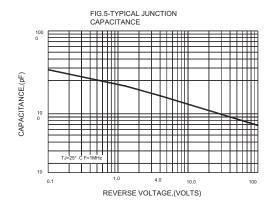
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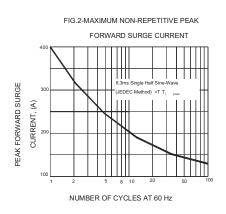
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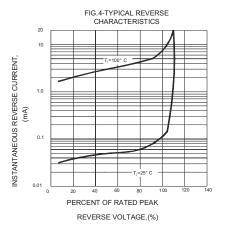
RATING AND CHARACTERISTIC CURVES P600A - P600M











Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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