



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

10A05 - 10A10

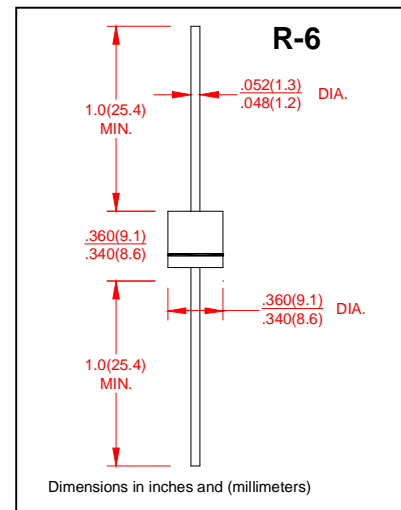
Voltage Range - 50 to 1000 V
Current - 10 A

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: 0.07 ounce, 2.0 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%

		SYMBOLS	10A05	10A1	10A2	10A4	10A6	10A8	10A10	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)	10.0							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 @10.0A		V _F	0.95							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	T _A = 25°C	I _R	10							μAmps
	T _A = 100°C		1.0							mAmps
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× 30mm)copper heatsink .



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RATING AND CHARACTERISTIC CURVES 10A05 - 10A10

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

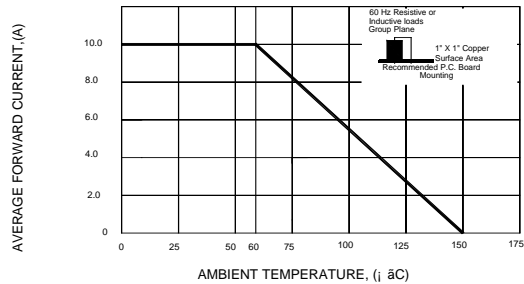


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

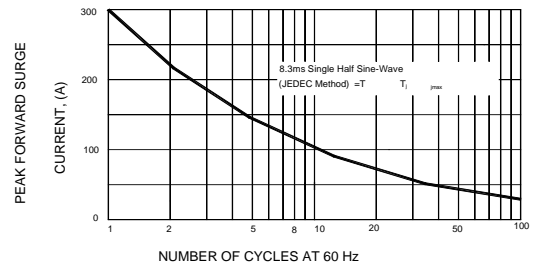


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

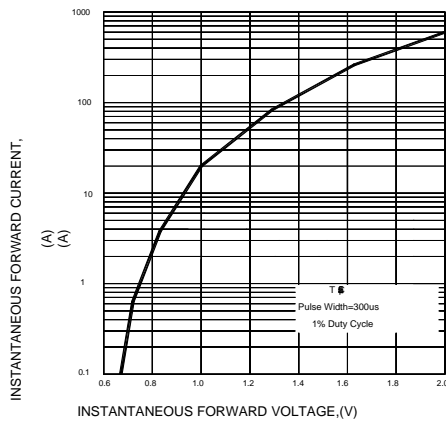


FIG.4-TYPICAL REVERSE CHARACTERISTICS

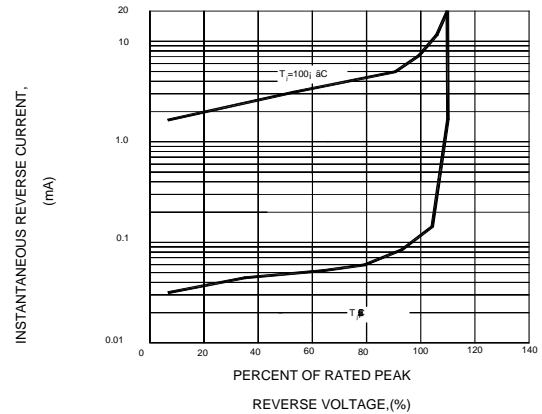


FIG.5-TYPICAL JUNCTION CAPACITANCE

