



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

1G1 THRU 1G7

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

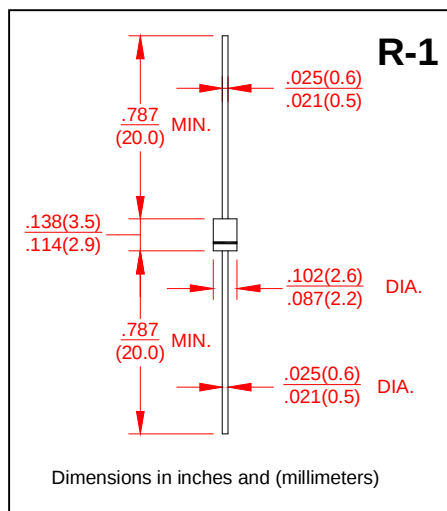
1.0 Ampere

FEATURES

- Glass passivated chip junction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 secods,0.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.007ounce, 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%

		SYMBOLS	1G1	1G2	1G3	1G4	1G5	1G6	1G7	UNIT
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 = 25 °C		I _(AV)	1.0							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	25							Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25 °C	I _R	5.0							μA
	T _A = 125 °C		50							
Maximum DC Reverse Current, full cycle Average 0.375(9.5mm) lead length at T _L =75 °C		I _{R(AV)}	30							μA
Typical Junction Capacitance (NOTE 1)		C _J	15							pF
Typical Thermal Resistance (NOTE 2)		R _{θJA}	50							°C/W
Operating Temperature Range		T _J	(-55 to +150)							°C
Storage Temperature Range		T _{STG}	(-55 to +150)							

Notes:

1. Measured at 1.0MHz and applied Reverse voltage of 4.0Volts.
2. Thermal Resistance from Junction to Ambient at .375"(9.5mm)lead length, P.C. board mounted.



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RATING AND CHARACTERISTIC CURVES 1G1 THRU 1G7

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

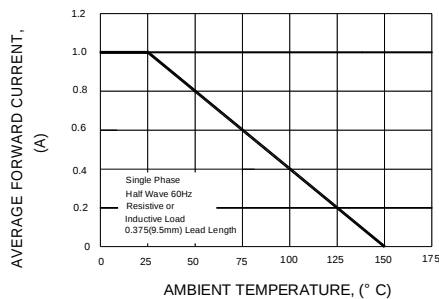


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

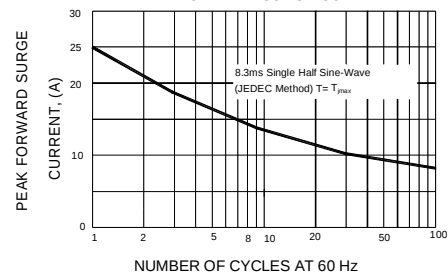


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

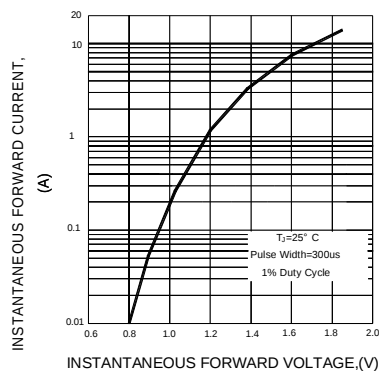


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

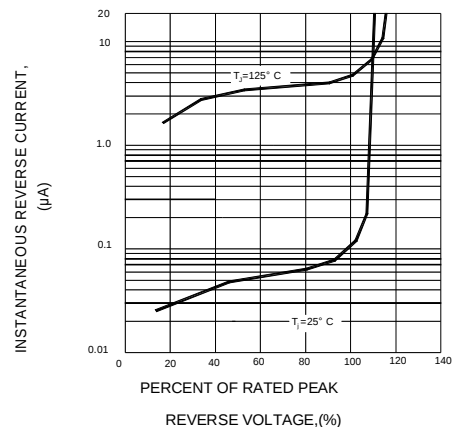


FIG.5-TYPICAL JUNCTION CAPACITANCE

