

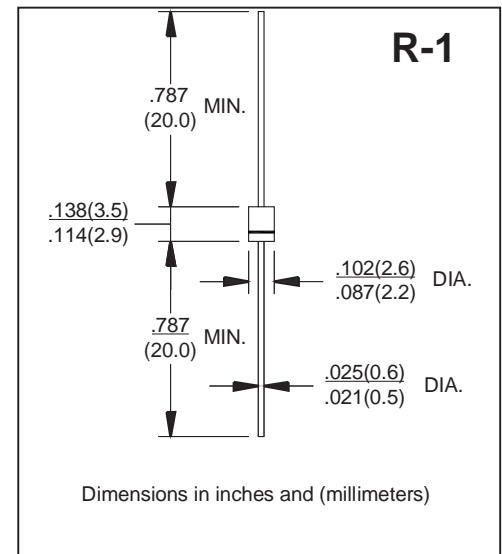
AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

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
- AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER



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	1A1	1A2	1A3	1A4	1A5	1A6	1A7	1A8	1A9	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	1500	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	840	1050	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	1200	1500	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at $T_A = 25^\circ C$	$I_{(AV)}$	1.0									Amps
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 per element	$T_A = 25^\circ C$	5.0									μA
	$T_A = 125^\circ C$	50									
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at $T_L = 75^\circ C$	$I_{R(AV)}$	30									μA
Typical Junction Capacitance (Note 1)	C_J	25									pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50									$^\circ C/W$
Operating Junction Temperature Range	T_J	-55 to +150									$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150									$^\circ C$

Notes:

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

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RATINGS AND CHARACTERISTIC CURVES 1A1 - 1A9

FIG.1-TYPICAL FORWARD CURRENT

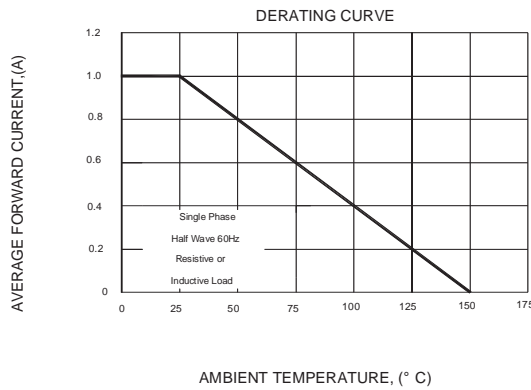


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

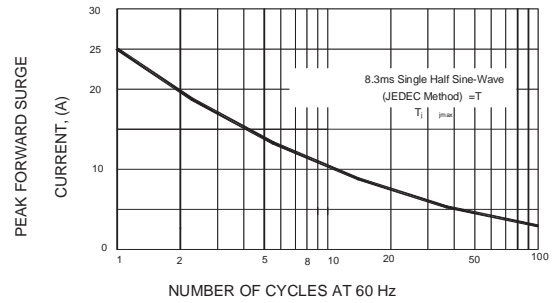


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

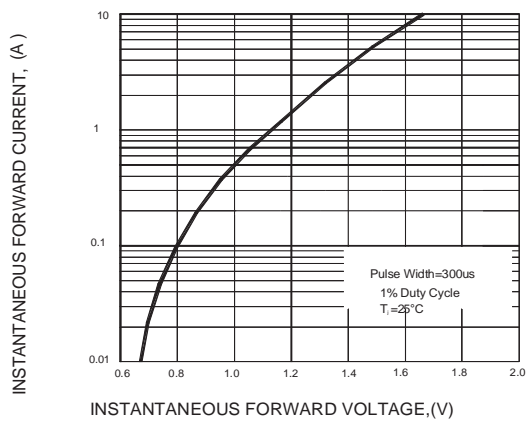


FIG.4-TYPICAL REVERSE CHARACTERISTICS

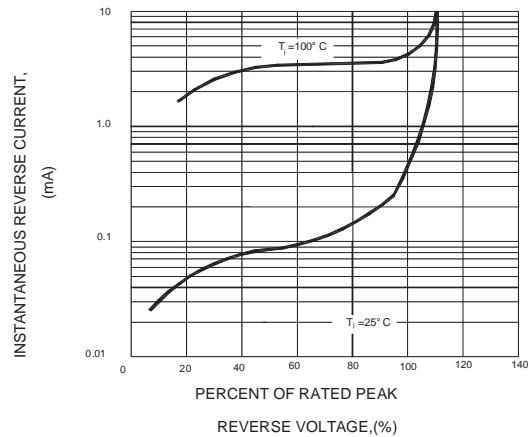
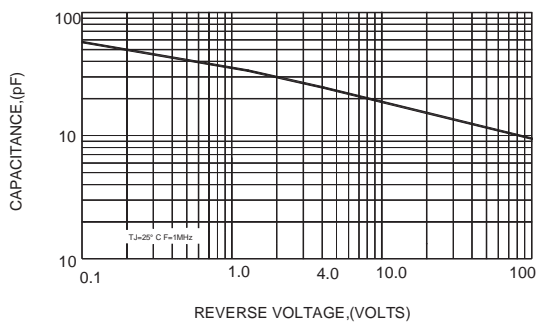


FIG.4-TYPICAL JUNCTION CAPACITANCE



Disclaimer

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