

AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

1A1 THRU 1A9

VOLTAGE RANGE CURRENT

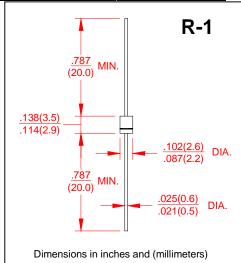
50 to 1000 Volts 1.0 Ampere

FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 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%

		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 °C	I_R	5.0									μΑ
	T _A = 125 °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									μΑ
Typical Junction Capacitance (Note 1)		C_{J}	40									pF
Typical Thermal Resistance (Note 2)		$R_{ heta JA}$	50									°C/W
Operating Junction Temperature Range		T_{J}	-55 to +150									$^{\circ}$
Storage Temperature Range		T_{STG}	-55 to +150									$^{\circ}$ C

Notes:

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

Web Site: www.hkmic.com

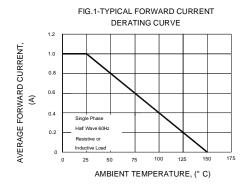


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RATING AND CHRACTERISTIC CURVES 1A1 Thur 1A9



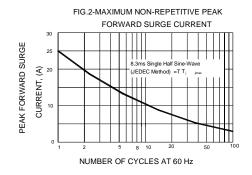
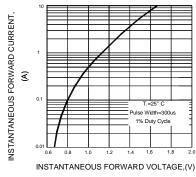


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



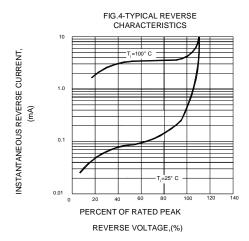
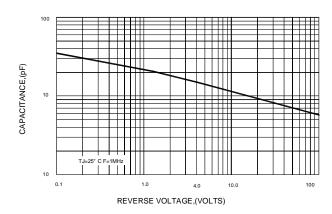


FIG.4-TYPICAL JUNCTION CAPACITANCE



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