



DATA SHEET

1A1~1A7

MINIATURE PLASTIC SILICON RECTIFIER

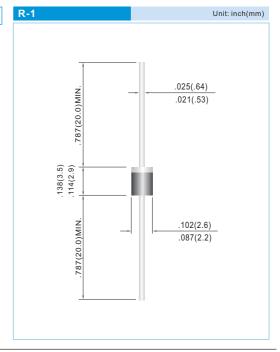
VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes

FEATURES

- · High rellability.
- Low leakage.
- Low forward voltage drop.
- · High current capability.
- Exceeds environmental standards of MIL-S-19500 / 228
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: Molded plastic, R-1
- Epoxy: UL 94V-O rate flame retardant.
- Lead: MIL-STD-750 method 2026
- Mounting Position: Any
- Weight: 0.0064 ounce, 0.181 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	1A1	1A2	1A3	1 A 4	1A5	1A6	1A7	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T_A =50°C	I _{F(AV)}	1.0							А
Peak Forward Surge Current: 8.3ms single half sinewave superimposed on rated load(JEDEC method)	I _{FSM}	30							А
Maximum Forward Voltage at 1.0A	V _F	1.1							V
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =100°C	I _R	5.0 50							uA
Typical Junction capacitance (Note 1)	C J	15							pF
Typical Thermal Resistance	R _{eJA}	60							°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 TO +150							°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0 volts.

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RATING AND CHARACTERISTIC CURVES

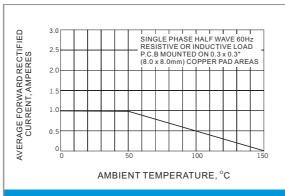


Fig.1 FORWARD CURRENT DERATING CURVE

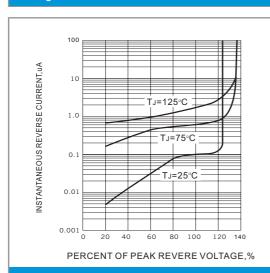
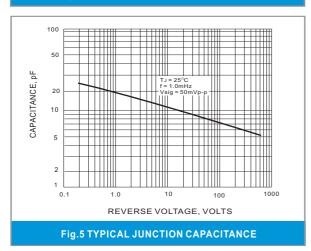
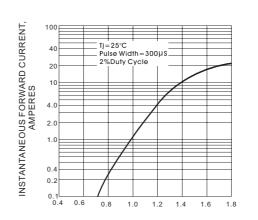


Fig.3 TYPICAL REVERSE CHARACTERISTICS





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

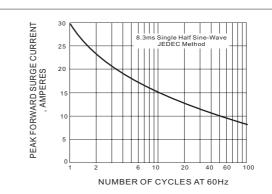


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

LEGAL STATEMENT

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