PLASTIC SILICON RECTIFIER

VOLTAGE RANGE: 50 TO 1000 VOLTS

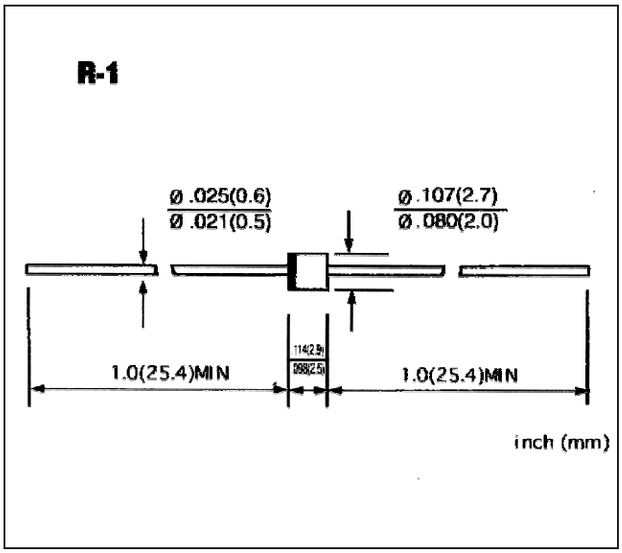
CURRENT: 1.0 AMPERES

FEATURES

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

Case: JEDEC R-1, molded plastic
Terminals: Axial leads, solder able per MIL-STD-202, Method 208
Polarity: Color band denotes cathode
Weight: 0.007ounce, 0.20 gram
Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameters		1A1	1A2	1A3	1A4	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 Rectified Current 9.5mm Lead Length, @ T_A=75℃	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load @T_j=125℃	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.0							V
Maximum Reverse Current @T_A=25℃ at Rated DC Blocking Voltage @T_A=100℃	I_R	5.0 50							μA
Typical Junction Capacitance (Note 1)	C_j	15							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	35							℃/W
Operating Junction Temperature Range	T_j	-65---+150							℃
Storage Temperature Range	T_{STG}	-65---+150							℃

NOTE: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Thermal Resistance Junction to Ambient.