1A1 THRU 1A7

General Purpose Plastic Rectifier

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

FEATURES

- ◆Low forward voltage drop
- ◆Low leakage current
- ♦ High forward surge capability
- ◆High temperature soldering guaranteed:

 260° C/10 seconds,0.375" (9.5mm)lead length at

5 lbs(2.3kg) tension

Mechanical Data

◆Case: Transfer molded plastic

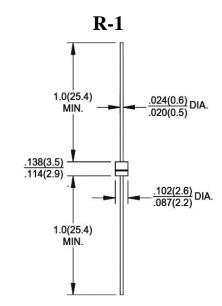
◆Epoxy: UL94V-0 rate flame retardant

◆Polarity: Color band denotes cathode end

◆Lead: Plated axial lead, solderable per

MIL-STD-202E method 208C

◆Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOL	1A1	1A2	1A3	1A4	1A5	1A6	1A7	UNIT
Maximum Recurrent 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 at $T_A=25^{\circ}\mathrm{C}$	I(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A	V_{F}	1.1							Volts
Maximum DC Reverse Current $T_A=25^{\circ}C$ at rated DC Blocking voltage $T_A=100^{\circ}C$	\mathbf{I}_{R}	5.0 100							μА
Typical Junction Capacitance (NOTE 1)	C_{J}	25							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	60							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							°C

Note: 1.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

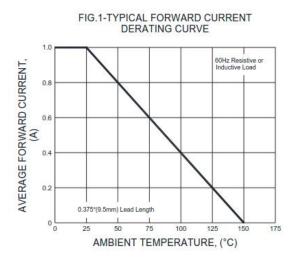
2.Thermal Resistance from Junction to Ambient at. 375"(9.5mm)lead length, P.C. board mounted.

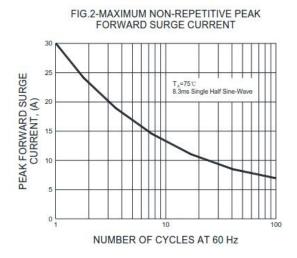
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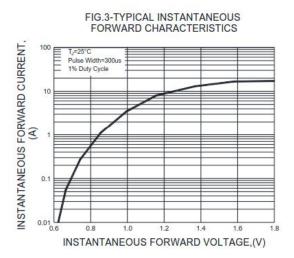
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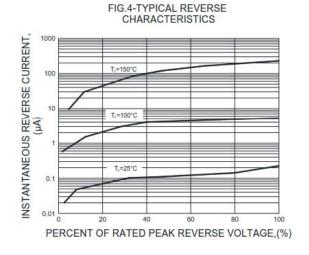
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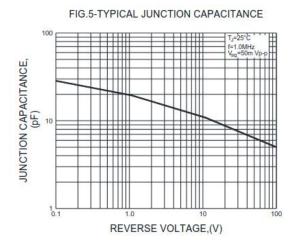
RATING AND CHARACTERISTIC CURVES 1A1 THRU 1A7











Note: Specifications are subject to change without notice. For more detail and update, please visit our website.