



DATA SHEET

1A1G~1A7G

MINIATURE GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes R-1

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Glass passivated junction version of 1A1G thru 1A7G in R-1 package.
- Exceeds environmental standards of MIL-S-19500/228
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

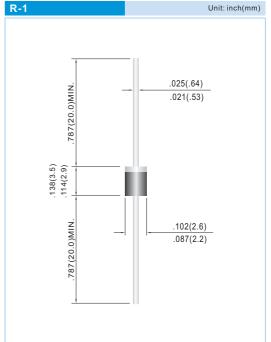
Case: Molded plastic, R-1

Terminals: Axial leads, solderable to MIL-STD-750, Method 2026

Polarity: Color Band denotes cathode end

Mounting Position: Any

Weight: 0.064 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	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at TA=75°C	lav	1.0							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	IFSM	30						А	
Maximum Forward Voltage at 1.0A	VF	1.1						V	
Maximum DC Reverse Current at TA=25°C Rated DC Blocking Voltage TA=100°C	IR	5.0 50							uA
Typical Junction capacitance (Note 1)	Сл	15							pF
Typical Thermal Resistance	RθJA	50							°C / W
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 TO +150							°C

NOTES:

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

*JEDEC Registered Value.

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RATING AND CHARACTERISTIC CURVES

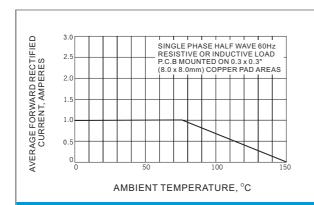
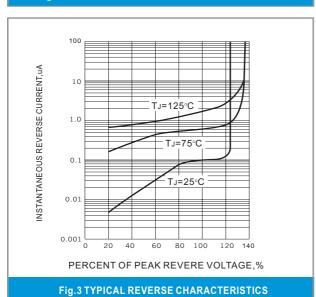
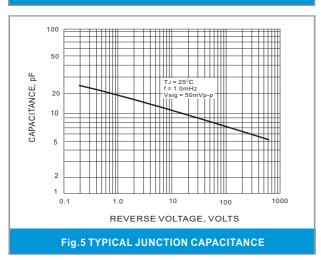
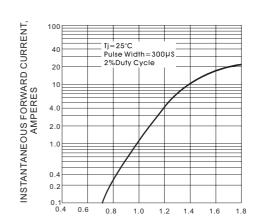


Fig.1 FORWARD CURRENT DERATING CURVE







INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

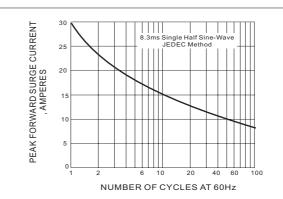


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

LEGAL STATEMENT

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