

1A1G THRU 1A7G

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

FEATURES

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Construction utilizes void-free molded plastic technique Low reverse leakage High forward surge current capability High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension Glass passivated chip junction

MECHANICAL DATA

Case: R-1 molded plastic body

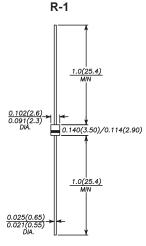
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.20 grams



Dimensions in inches and (millimeters)

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 current derate by 20%.

	SYMBOLS	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	UNITS
Maximum repetitive 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 rectified current 0.375"(9.5mm) lead length at Ta=25℃	l(AV)	1.0						Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0						А	
Maximum instantaneous forward voltage at 1.0A	VF	1.1						V	
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	5.0 100.0						μΑ	
Typical junction capacitance (NOTE 1)	Cı	15.0						pF	
Typical thermal resistance (NOTE 2)	RθJA	50.0							°C/W
Operating junction and storage temperature range	Тл,Твтс	-55 to +150							°C

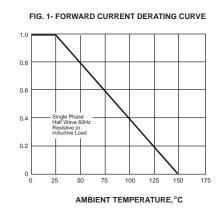
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

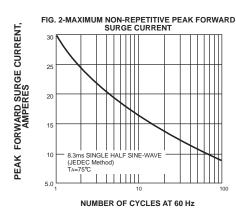
2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

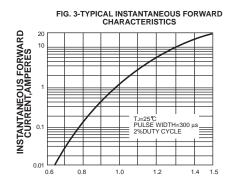


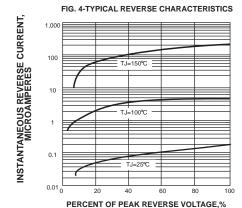
RATINGS AND CHARACTERISTIC CURVES 1A1G THRU 1A7G

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

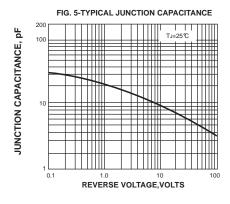


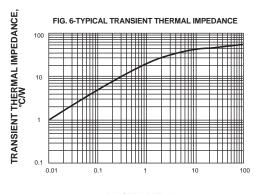












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