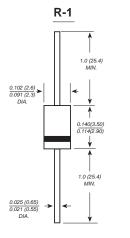


1A1 THRU 1A7

GENERAL PURPOSE SILICON RECTIFIER

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



Dimensions in inches and (millimeters)

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: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

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

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 UNITS MDD Catalog Number 1A1 1A2 1A3 1A4 1A5 1A6 1A7 Maximum repetitive peak reverse voltage 50 100 200 400 600 800 1000 **VOLTS** VRRM Maximum RMS voltage 35 70 140 280 420 560 700 **VOLTS** VRMS

2 2 2 2 2	V ICIVIO		_	_		_			
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	l(AV)	1.0							A 200 0
0.375"(9.5mm) lead length at Ta=25°C	I(AV)	1.0							Amp
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	IFSM 25.0							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.1						Volts	
Maximum DC reverse current T _A =25°C		5.0 50.0						μА	
at rated DC blocking voltage Ta=100℃	l R								
Typical junction capacitance (NOTE 1)	Cı	15.0						pF	
Typical thermal resistance (NOTE 2)	Reja	50.0						°C/W	
Operating junction and storage temperature range	Тл.Тѕтс	-50 to +150						°C	

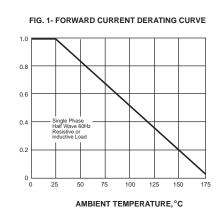
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

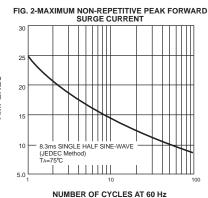
MDD ELECTRONIC

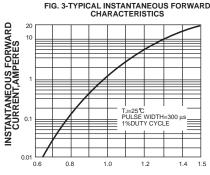
RATINGS AND CHARACTERISTIC CURVES 1A1 THRU 1A7

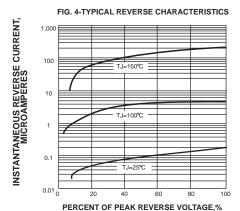




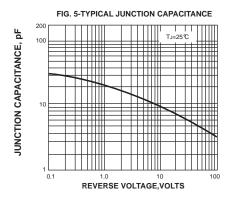


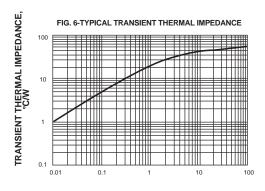






INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.

MDD ELECTRONIC