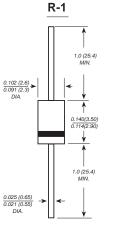


1A1 THRU 1A7

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%.

| MDD Catalog Number | SYMBOLS | 1A1 | 1A2 | 1A3 | 1A4 | 1A5 | 1A6 | 1A7 | UNITS |
|--|---------|-------------|-----|-----|-----|-----|-----|------|-------|
| Maximum repetitive peak reverse voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=25℃ | l(AV) | 1.0 | | | | | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | lfsm | 25.0 | | | | | | | Amps |
| Maximum instantaneous forward voltage at 1.0A | VF | 1.1 | | | | | | | Volts |
| Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃ | lR | 5.0 50.0 | | | | | | 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,Тѕтс | -50 to +150 | | | | | | | °C |

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

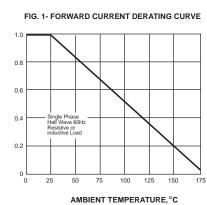
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

2014-03 01版

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RATINGS AND CHARACTERISTIC CURVES 1A1 THRU 1A7







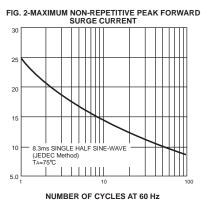
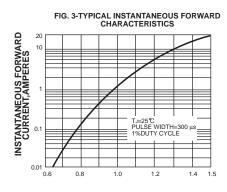
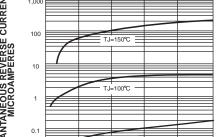


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



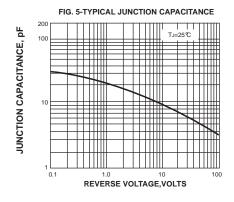


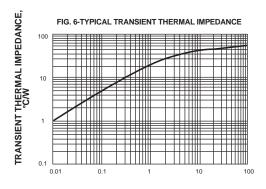
0.01



INSTANTANEOUS FORWARD VOLTAGE, VOLTS







t, PULSE DURATION, sec.

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