山东迪一电子科技有限公司



1A1 – 1A7 🐯 📈

1.0A STANDARD DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: R-1, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.181 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,



| R-1 | | | | | | |
|----------------------|------|------|--|--|--|--|
| Dim | Min | Max | | | | |
| Α | 20.0 | - | | | | |
| В | 2.90 | 3.50 | | | | |
| С | 0.53 | 0.64 | | | | |
| D | 2.20 | 2.60 | | | | |
| All Dimensions in mm | | | | | | |

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

| Characteristic | Symbol | 1A1 | 1A2 | 1A3 | 1 A 4 | 1A5 | 1A6 | 1A7 | Unit |
|---|--------------------|-------------|-----|-----|--------------|-----|-----|------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) $@T_A = 75^{\circ}C$ | lo | 1.0 | | | | | | | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | FSM | 30 | | | | | | | A |
| Forward Voltage $@I_F = 1.0A$ | Vfm | 1.0 | | | | | | | V |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$ | Ігм | 5.0 50 | | | | | | | μA |
| Typical Junction Capacitance (Note 2) | Cj | 15 | | | | | | | pF |
| Typical Thermal Resistance Junction to Ambient (Note 1) | $R_{	heta}$ JA | 50 | | | | | | °C/W | |
| Operating Temperature Range | Tj | -65 to +125 | | | | | | | °C |
| Storage Temperature Range | Тѕтс | -65 to +150 | | | | | | °C | |

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

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