multicomp PRO

RoHS

Compliant



Features

- For surface mounted applications
- · Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- Lead free
- Case style: DO-214AC (SMA) molded plastic

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

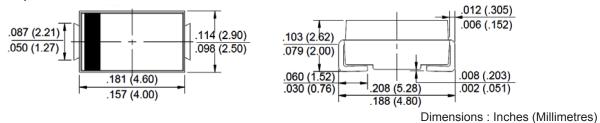
| Characteristics | Symbol | Values | Unit |
|--|--------|-------------|------------------|
| Maximum Repetitive Peak Reverse Voltage | Vrrm | 1000 | |
| Maximum RMS Voltage | Vrms | 700 | V |
| Maximum DC Blocking Voltage | VDC | 1000 | |
| Maximum Average Forward Rectified Current @ T∟ = 100°C | l(AV) | 1 | A |
| Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) | IFSM | 30 | A |
| I ² t Rating for Fusing (t<8.3mS) | l²t | 3.7 | A ² s |
| Peak Forward Voltage at 1A DC (Note1) | VF | 1.1 | V |
| Max. DC Reverse Current @ TJ=25°C Rated DC Blocking Voltage @ TJ=100°C | lr | 5 100 | μA |
| Typical Junction Capacitance (Note 2) | С | 10 | pF |
| Typical Thermal Resistance Junction to Case | Rejc | 30 | °C/W |
| Operating Junction Temperature Range | TJ | -55 to +150 | °C |
| Storage Temperature Range | Тѕтс | | |

Notes: 1. 300µS pulse width, 2%duty cycle

2. Measured at 1 MHz and applied reverse voltage of 4V DC

3. The typical data above is for reference only.

DO-214AC (SMA)

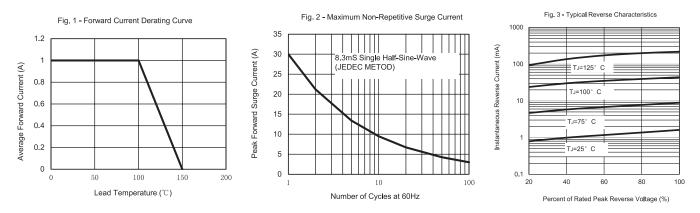


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Rating and Characteristic Curves





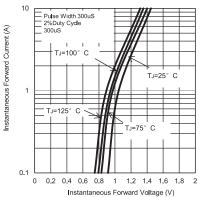
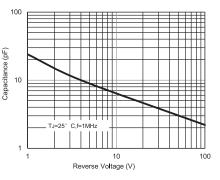


Fig. 5 - Typical Junction Capacitance



Part Number Table

| Description | Part Number | |
|--|-------------|--|
| Rectifier Diode, 1kV, 1A, DO-214AC (SMA) | 1N4007 SMD | |

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