DongGuan Tongke Electronic Co.,LTD



1N5817 - 1N5819

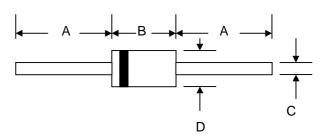




1.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



DO-41 Dim Min Max 24.5 Α В 4.06 5.21 0.60 0.80 С D 2.00 3.00 All Dimensions in mm

Mechanical Data

Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.34 grams (approx.)

Mounting Position: AnyMarking: Type Number

• Lead Free: For RoHS / Lead Free Version

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 | 1N5817 | 1N5818 | 1N5819 | Unit |
|---|--------------------|-------------|--------|--------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM VRWM VR | 20 | 30 | 40 | V |
| RMS Reverse Voltage | VR(RMS) | 14 | 21 | 28 | V |
| Average Rectified Output Current (Note 1) @T _L = 75°C | lo | 1.0 | | | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 25 | | | А |
| Forward Voltage @I _F = 1.0A | V _{FM} | 0.450 | 0.550 | 0.60 | V |
| | IRМ | 1.0 10 | | | mA |
| Typical Junction Capacitance (Note 2) | Cj | 110 | | | pF |
| Typical Thermal Resistance Junction to Lead (Note 1) | R_{θ} JL | 60 | | K/W | |
| Operating and Storage Temperature Range | Tj, Tstg | -65 to +150 | | | °C |

Note: 1. Valid provided that leads are kept 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.

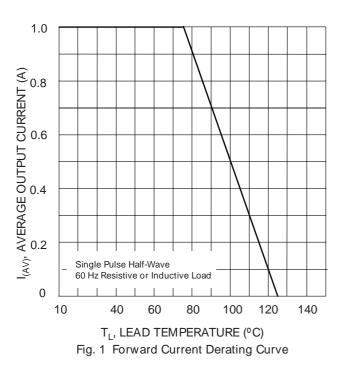
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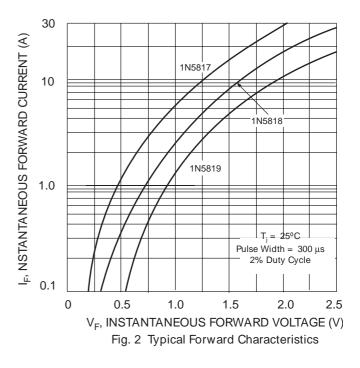


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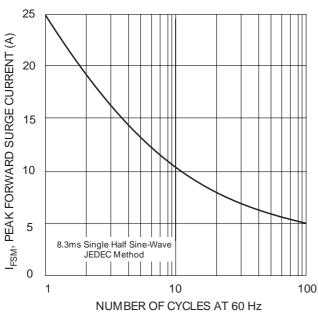


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

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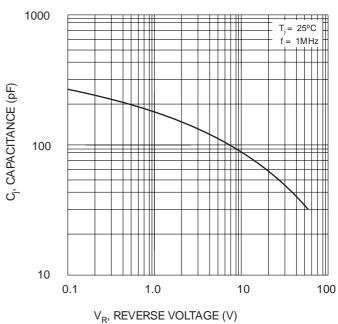


Fig. 4 Typical Junction Capacitance