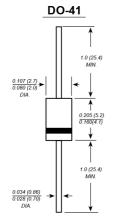


# 1N5817 THRU 1N5819

SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 40Volts Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guardring for overvoltage protection
- Low power loss high efficiency
- High current capability low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed:

260°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

#### MECHANICAL DATA

Case: JEDEC DO-41 molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.012 ounce, 0.33 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 current capacitive load derate by 20%.

|  | SYMBOLS | 1N5817      | 1N5818      | 1N5819 | UNITS |
|--|---------|-------------|-------------|--------|-------|
| Maximum repetitive peak reverse voltage  | Vrrm    | 20          | 30          | 40     | V     |
| Maximum RMS voltage  | Vrms    | 14          | 21          | 28     | V     |
| Maximum DC blocking voltage  | Vdc     | 20          | 30          | 40     | V     |
| Maximum average forward rectified current<br>0.375"(9.5mm) lead length at T∟=90℃                       | l(AV)   |             | 1.0         |        | A     |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on<br>rated load (JEDEC Method) | Ігѕм    |             | 25.0        |        | A     |
| Maximum instantaneous forward voltage at 1.0A  | Vf      | 0.450       | 0.550       | 0.600  | V     |
| Maximum DC reverse current Ta=25°C<br>at rated DC blocking voltage Ta=100°C                            | IR      | 0.5<br>10.0 |             |        | mA    |
| Typical junction capacitance (NOTE 1)  | CJ      | 110.0       |             |        | pF    |
| Typical thermal resistance (NOTE 2)  | Reja    |             | 50.0        |        | °C/W  |
| Operating junction and storage temperature range   | Tj,Tstg |             | -55 to +125 |        | °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

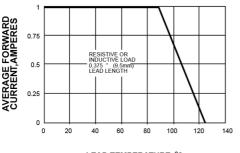
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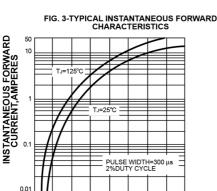


## RATINGS AND CHARACTERISTIC CURVES 1N5817 THRU 1N5819

FIG. 1- FORWARD CURRENT DERATING CURVE



LEAD TEMPERATURE, °C



1.0 INSTANTANEOUS FORWARD VOLTAGE. VOLTS

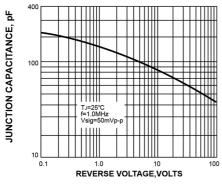
1.2 1.4 1.6

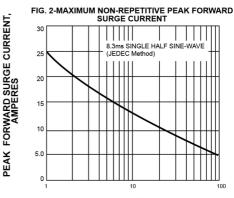
0

0.2

0.4 0.6 0.8

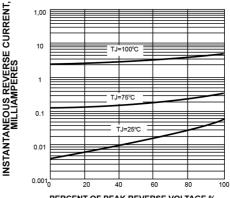




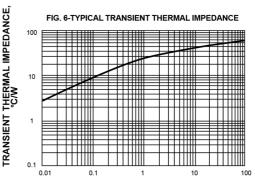


NUMBER OF CYCLES AT 60 Hz





PERCENT OF PEAK REVERSE VOLTAGE,%



t, PULSE DURATION, sec.

CHONGQING DA

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单击下面可查看定价,库存,交付和生命周期等信息

>>RCD(达标电子)