

1N5817 THRU 1N5819

Reverse Voltage -20 to 40Volts

Forward Current -1.0 Ampere

Schottky Barrier Rectifier

Features

- The plastic package carries Underwriters Laboratory
 Flammability Classification 94-0
- · Metal silicon junction, majority carrier conduction
- · low power loss, high efficiency
- · High forward surge current capability
- High temperature soldering guaranteed:260 °C/10seconds,
 0.375"(9.5mm) lead length,5lbs. (2.3kg) tension

Mechanical Data

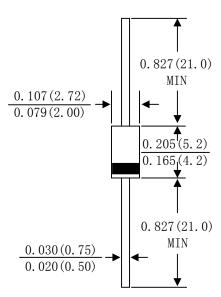
· Case: JEDEC DO-41 molded plastic body

 Terminals: Plated leads solderable per MIL-STD-750, Method 2026

· Polarity: Color band denotes cathode end

• Mounting Position: Any

<u>DO-41</u>



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

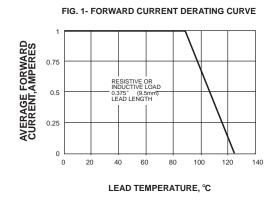
Single phase, half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

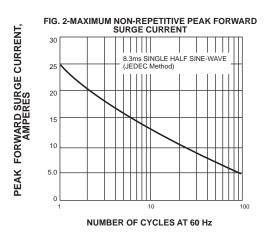
| Type Number | SYMBOL | 1N5817 | 1N5818 | 1N5819 | Units |
|---|-------------------|-------------|--------|--------|------------|
| Maximum recurrent peak reverse voltage | V _{RM} | 20 | 30 | 40 | V |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 28 | V |
| Maximum DC blocking voltage | VDC | 20 | 30 | 40 | V |
| Maximum average rectified output current 0.375"(9.5mm) lead length(see fig.1) | I _(AV) | 1.0 | | | А |
| Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method) | İfsm | 25.0 | | | А |
| Maximum instantaneous forward voltage at1.0A | VF | 0.45 | 0.55 | 0.60 | V |
| Maximum DC reverse current @TA=25°C | | 0.5 | | | mA |
| At Rated DC blocking voltage @TA=100°C | lR | 10.0 | | | |
| Typical junction capacitance (Note 1) | Cj | 110.0 | | | pF |
| Typical thermal resistance (Note 2) | RθJA | 50.0 | | | °C/W |
| Operating junction temperature range | Tj | -55 to +125 | | | $^{\circ}$ |
| Storage temperature range | Тѕтс | -55 to +150 | | | $^{\circ}$ |

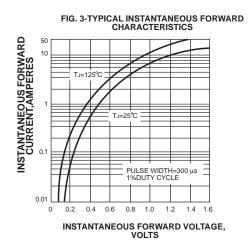
Note: 1. Measured at 1.0 MHz and applied reverse Voltage of 4.0V D.C

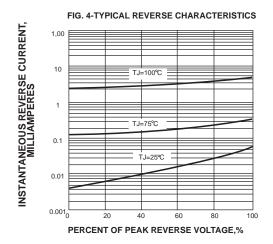
2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted.

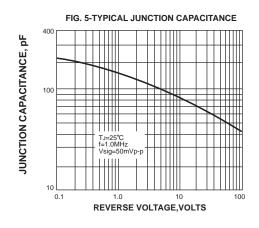
RATINGS AND CHARACTERISTIC CURVES 1N5817 THRU 1N5819

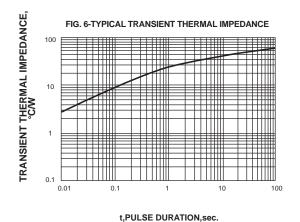




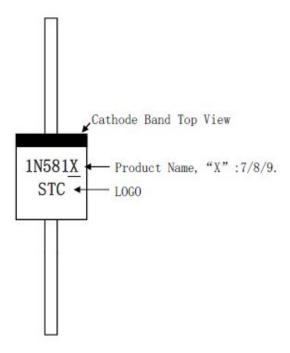








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