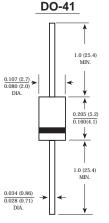
# 1N5817 THRU 1N5819

## SCHOTTKY BARRIER RECTIFIER

Forward Current - 1.0 Ampere Reverse Voltage - 20 to 40Volts



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: 250°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%.

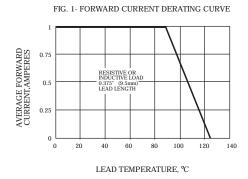
	SYMBOLS	1N5817	1N5818	1N5819	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	30	40	VOLTS
Maximum RMS voltage	VRMS	14	21	28	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at TL=90℃	I(AV)	1.0			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	25.0			Amps
Maximum instantaneous forward voltage at 1.0A	VF	0.450	0.550	0.600	Volts
Maximum DC reverse current $TA=25^{\circ}C$ at rated DC blocking voltage $TA=100^{\circ}C$	IR	1.0 10.0			mA
Typical junction capacitance (NOTE 1)	Сл	110.0			pF
Typical thermal resistance (NOTE 2)	Rqja	50.0			°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +125			°C

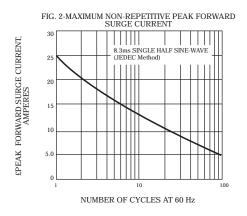
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

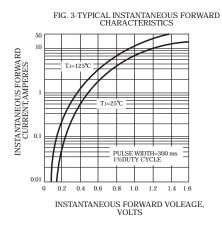
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

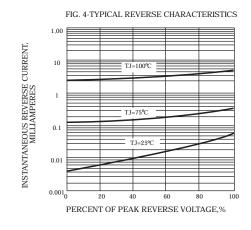


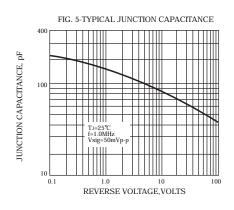
## RATINGS AND CHARACTERISTIC CURVES 1N5817 THRU 1N5819

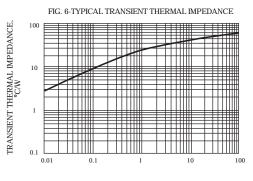












t,PULSE DURATION,sec.

