## 1N5817~1N5819 1.0Amp Schottky Barrier Rectifiers

## **Features**

- ◆ The plastic package carries 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**

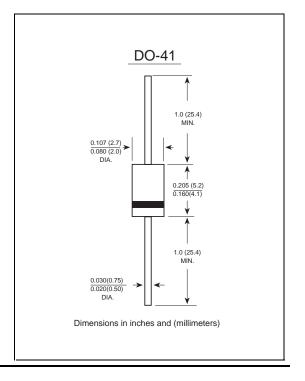
Case: JEDEC DO-41 molded plastic body

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  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current 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 T∟=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℃ at rated DC blocking voltage TA=100℃	IR	0.5 10.0			mA
Typical junction capacitance (NOTE 1)	Cı	110.0			pF
Typical thermal resistance (NOTE 2)	RθJA	50.0			°C/W
Operating junction and storage temperature range	TJ,TsTG		-65 to +125		°C

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

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