

# 1N5817 THRU 1N5819

## SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20-40V

CURRENT: 1.0A

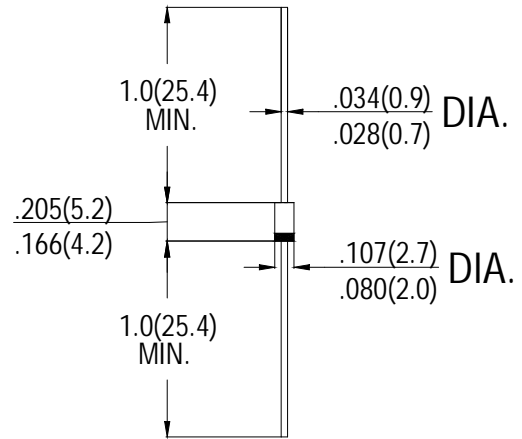
### FEATURES

- Low switching noise
- Low forward voltage drop
- High current capability
- High switching capability
- High reliability
- High surge capability

### MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 0.33 grams

### DO-41



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOL	1N5817	1N5818	1N5819	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	V
Maximum Average Forward rectified Current .375" (9.5mm) lead length at $T_L=75^\circ\text{C}$	$I_o$	1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	25			A
Maximum Instantaneous Forward Voltage at 1.0A DC	$V_F$	0.45	0.55	0.60	V
Maximum Forward Voltage at 3.1A DC		0.75	0.875	0.90	
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	$I_R$	1.0			mA
		10.0			
Typical Junction Capacitance (Note 1)	$C_J$	110			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	80			°C/W

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from junction to ambient at .375" (9.5mm) lead length