

1N5817 THRU 1N5819

1.0 AMP. Schottky Barrier Rectifiers

- м

Voltage Range 20 to 40 Volts Current 1.0 Ampere

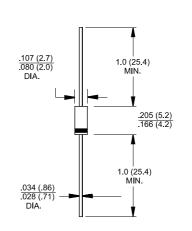
DO-41

Features

- Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- High surge current capability

Mechanical Data

- ♦ Cases: Molded plastic DO-41
- ♦ Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode end
- ♦ High temperature soldering guaranteed:
- ♦ 250°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
 - Weight: 0.33 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	1N5817	1N5818	1N5819	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	V
Maximum RMS Voltage	14	21	28	V
Maximum DC Blocking Voltage	20	30	40	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _L = 90°C		1.0		А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		25		А
Maximum Instantaneous Forward Voltage @ 1.0A	0.45	0.550	0.600	V
Maximum Instantaneous Forward Voltage @ 3.0A	0.750	0.875	0.900	V
Maximum DC Reverse Current @ T _A =25°C	1.0			mA
at Rated DC Blocking Voltage @ T _A =100°C	10			mA
Typical Thermal Resistance (Note 1) RθJA	50			°C/W
RθJC	12			
Typical Junction Capacitance (Note 2)	110			pF
Operating Temperature Range T _J	-65 to +125			°C
Storage Temperature Range T _{STG}	-65 to +125			°C

Notes: 1. Thermal Resistance from Junction to Ambient Vertical PC Board Mounting, 0.375"(9.5mm) Lead Length.

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.



RATINGS AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)

