



1N5817 - 1N5819

1.0 AMP. Schottky Barrier Rectifiers

DO-41

Features

- ♦ Low power loss, high efficiency.
- ♦ High current capability, Low VF.
- ♦ High reliability
- ♦ High surge current capability.
- ♦ Epitaxial construction.
- ♦ Guard-ring for transient protection.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application.

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Mechanical Data

- ♦ Cases: Molded plastic DO-41
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode.
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 0.33 gram

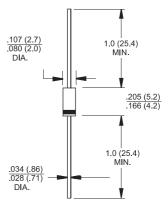
Maximum Ratings and Electrical Characteristics

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	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 $@T_L = 90^{\circ}C$	I _(AV)	1.0			А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30			А
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	0.45	0.550	0.600	V
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	0.750	0.875	0.900	V
Maximum DC Reverse Current @ $T_A=25$ °C at Rated DC Blocking Voltage @ $T_A=125$ °C	I _R	1.0 10.0			mA mA
Typical Junction Capacitance (Note 2)	Cj	55			pF
Typical Thermal Resistance (Note 1)	R _{θJA} R _{θJC}	100 45			°C/W
Operating Temperature Range	TJ	-65 to +125			°C
Storage Temperature Range	T _{STG}	-65 to +150			°C

Notes: 1. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

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



Dimensions in inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)

