



1N5817 - 1N5819

1.0 AMP. Schottky Barrier Rectifiers

DO-41

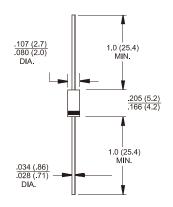


Features

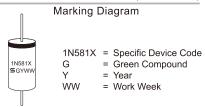
- ♦ Low power loss, high efficiency.
- ♦ High current capability, Low VF.
- ♦ High reliability
- ♦ High surge current capability.
- ♦ Epitaxial construction.
- ♦ Guard-ring for transient protection.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application.
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode.

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 grams



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	Symbol	1N5817	1N5818	1N5819	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	V
Maximum RMS Voltage	Vrms	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _L = 90°C	I F(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	VF	0.45	0.550	0.600	V
Maximum Instantaneous Forward Voltage @ 3.0A	VF	0.750	0.875	0.900	V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =100 °C (Note 1)	I R	1.0 10.0			mA mA
Typical Junction Capacitance (Note 2)	Cj	55			pF
Typical Thermal Resistance (Note 3)	RθJA RθJC	100 45			°C/W
Operating Temperature Range	TJ	-65 to +125			°C
Storage Temperature Range	Тѕтс	-65 to +150			°C

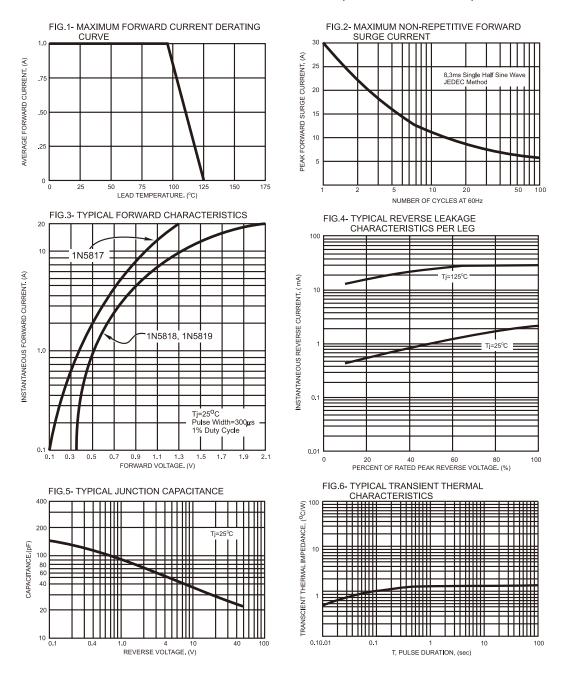
Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle.

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
- 3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

Version: C10



RATINGS AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)



Version: C10