





RoHS

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Features

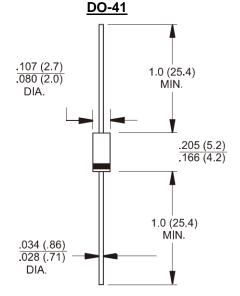
- ♦ Low power loss, high efficiency
- High current capability, Low VF
- High reliability
- High surge current capability
- ♦ Exitaxial construction
- ♦ Guard-ring for transient protection
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- Green compound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

Mechanical Data

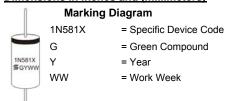
- ♦ Cases: Molded plastic DO-41
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260℃/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg)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

1N5817 - 1N5819

1.0AMP. Schottky Barrier Rectifiers



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ 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°C	I _{F(AV)}	1			А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30			А
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V _F	0.45	0.550	0.600	V
Maximum DC Reverse Current @ T _A =25 ℃	I_	1			mA
at Rated DC Blocking Voltage	I _R	10			mA
Typical Junction Capacitance (Note 2)	Cj	55			pF
Typical Thermal Resistance (Note 3)	$R_{ heta JA} \ R_{ heta JC}$	100 45			°C/W
Operating Temperature Range	TJ	- 65 to + 125			οС
Storage Temperature Range	T _{STG}	- 65 to + 150			°С

Note 1: Pulse Test With PW=300 usec, 1% Duty Cycle

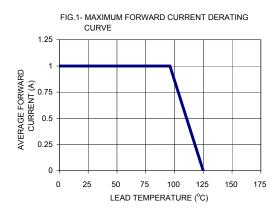
Note 2: Measure at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

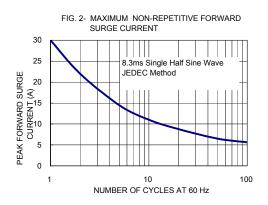
Note 3: Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

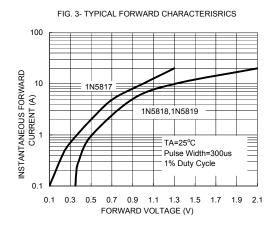


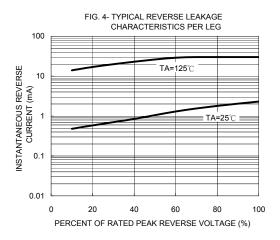


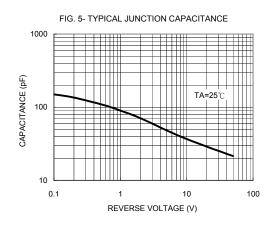
RATINGS AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)

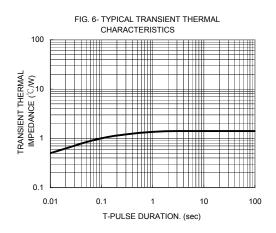












Version:C10