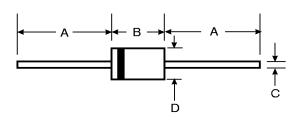


1N5817 - 1N5819

1.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application
- Plastic Material UL Flammability Classification 94V-0



DO-41 Plastic				
Dim	Min	Max		
Α	25.40	_		
В	4.06	5.21		
С	0.71	0.864		
D	2.00	2.72		
All Dimensions in mm				

Mechanical Data

Case: Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208
Polarity: Cathode Band
Weight: 0.3 grams (approx)
Mounting Position: Any
Marking: Type Number

Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

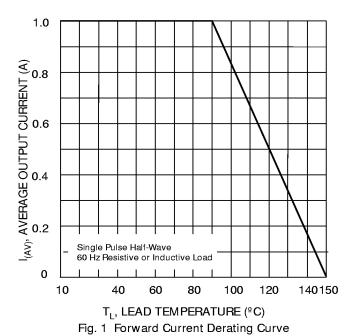
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

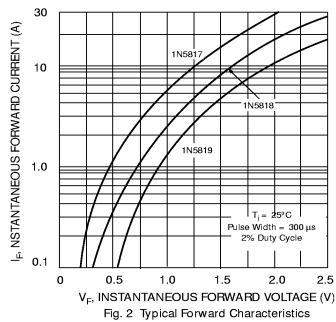
Characteristic	Symbol	1N5817	1N5818	1N5819	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _R WM V _R	20	30	40	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectified Output Current (Note 1)	lo	1.0			Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25			Α
Forward Voltage	V _{FM}	0.450 0.750	0.550 0.875	0.60 0.90	V
Peak Reverse Leakage Current at Rated DC Blocking Voltage @ T _A = 25°C @ T _A = 100°C	I _{RM}	1.0 10			mA
Typical Junction Capacitance (Note 2)	Cj	110			pF
Typical Thermal Resistance Junction to Lead (Note 1)	R ₀ JL	60			K/W
Operating and Storage Temperature Range	T_{j},T_{STG}	-65 to +150			°C

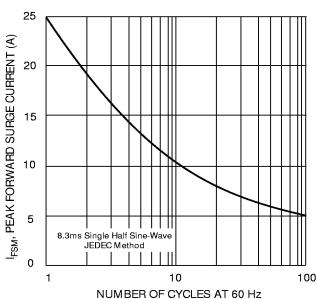
Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

DS23001 Rev. D 1 of 2 1N5817-1N5819







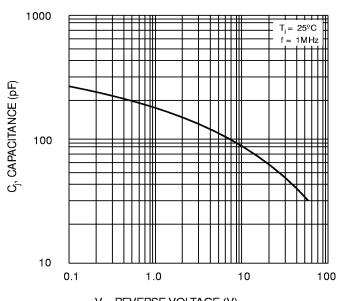


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance