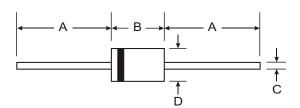


1N5817 - 1N5819

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 Rating 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
Number 1999

MIL-STD-202, Method 208Polarity: Cathode Band

Weight: 0.3 grams (approx)

Mounting Position: Any

Marking: Type Number

Maximum Ratings and Electrical Characteristics @ T_A = 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 _{RWM} V _R	20	30	40	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectified Output Current (Note 1)		1.0			Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		25			А
Forward Voltage (Note 2)		0.450 0.750	0.550 0.875	0.60 0.90	V
Peak Reverse Leakage Current @TA = 25°C at Rated DC Blocking Voltage (Note 2) @ TA = 100°C		1.0 10			mA
Typical Total Capacitance (Note 3)		110		pF	
Typical Thermal Resistance Junction to Lead (Note 4)		15			°C/W
Typical Thermal Resistance Junction to Ambient		50			
Operating and Storage Temperature Range		-65 to +125		°C	

Notes:

- 1. Measured at ambient temperature at a distance of 9.5mm from the case.
- 2. Short duration test pulse used to minimize self-heating effect.
- 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 4. Thermal resistance from junction to lead vertical P.C.B. mounted, 0.375" (9.5mm) lead length with 1.5 x 1.5" (38 x 38mm) copper pads.



