1N5817 THRU **1N5819 1.0 AMP SCHOTTKY BARRIER RECTIFIERS VOLTAGE RANGE** 20 to 40 Volts CURRENT **FEATURES** 1.0 Ampere * Low forward voltage drop * High current capability DO-41 * High reliability .107(2.7) * High surge current capability .080(2.0) * Epitaxial construction DIÀ 1.0(25.4) MIN. **MECHANICAL DATA** * Case: Molded plastic * Epoxy: UL 94V-0 rate flame retardant ¥ * Lead: Axial leads, solderable per MIL-STD-202, .205(5.2) .166(4.2) method 208 guranteed * Polarity: Color band denotes cathode end * Mounting position: Any * Weight: 0.34 grams 1.0(25.4) * Both normal and Pb free product are available: .034(.9) MÌN. .028(.7) DIA. * Normal:80~95%Sn,5~20%Pb * Pb free:99 Sn above can meet Rohs enviroment substance V directive request Dimensions in inches and (millimeters) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	1N5817	1N5818	1N5819	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	V
Maximum RMS Voltage	14	21	28	V
Maximum DC Blocking Voltage	20	30	40	V
Maximum Average Forward Rectified Current			- L	
.375"(9.5mm) Lead Length at Ta=90 ℃		1.0		А
Peak Forward Surge Current, 8.3 ms single half sine	e-wave			
superimposed on rated load (JEDEC method)		25		А
Maximum Instantaneous Forward Voltage at 1.0A	0.45	0.55	0.60	V
Maximum DC Reverse Current Ta=25°	С	500		uA
at Rated DC Blocking Voltage Ta=100	ວິເ	10		mA
Typical Junction Capacitance (Note1)		110		
Typical Thermal Resistance RθJA (Note 2)		80		
Operating Temperature Range TJ		-65-+125		
Storage Temperature Range Tsrg		-65-+150		°C
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NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

