1N5817 THRU 1N5819

1 AMPERE SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 to 40 Volts CURRENT - 1.0 Ampere

FEATURES

Plastic package has Underwriters Laboratory

Flammability Classification 94V-O Utilizing

Flame Retardant Epoxy Molding Compound

• 1.0 ampere operation at T_L=90°C with no thermal runaway

Exceeds environmental standards of MIL-S-19500/228

 For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications

MECHANICAL DATA

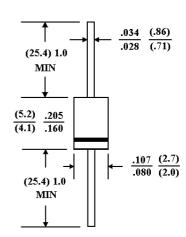
Case: Molded plastic, JECEC DO-41

Terminals: Axial leads, solderable per MIL-STD-202, Method 208

Polarity: Color Band denotes cathode

Mounting Position: Any

Weight: 0.012 ounce, 0.3 gram



DO-41

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

	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 3/8" Lead Length T _L =90 °C	1.0			А
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load	25			А
(JECEC method) T _L =70 °C				
Maximum Forward Voltage at 1.0A DC	.45	.55	.60	V
Maximum Forward Voltage at 3.0A DC	.75	.875	.90	V
Maximum Average DC Reverse Current T _A =25 °C	0.5			mA
at Rated Reverse Voltage T _A =100 °C	10			mA
Typical Junction capacitance (Note 1)	110			₽F
Typical Thermal Resistance(Note 2)	80			°C/W
Operating and Storage Temperature Range	-50 to +125			°C

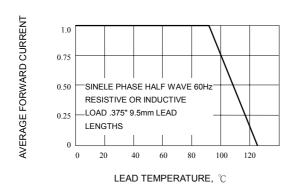
NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Thermal Resistance Junction to Ambient





RATING AND CHARACTERISTIC CURVES 1N5817 THRU 1N5819



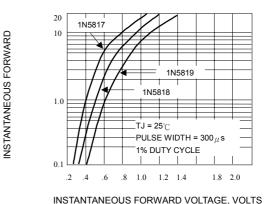


Fig. 1-FORWARD CURRENT DERATING CURVEE

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

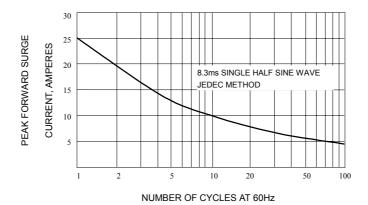


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

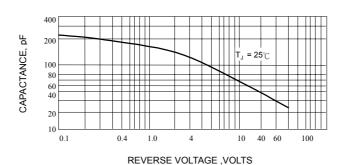


Fig. 4-TYPICAL JUNCTION CAPACITANCE



