

1N5817 THRU 1N5819

PLASTIC SCHOTTKY BARRIER RECTIFIER **VOLTAGE RANGE 20 to 40 Volts** CURRENT 1.0 Ampere

FEATURES

- **♦**Low switching noise
- ◆Low forward voltage drop
- ◆High forward surge capability
- ♦ High reliability
- ◆ High temperature soldering guaranteed
- $\triangle 260^{\circ}$ C/10 seconds,0.375" (9.5mm)lead length at 5 lbs(2.3kg)

tension

Mechanical Data

◆Case: Transfer molded plastic

◆Epoxy: UL94V-0 rate flame retardant

◆Polarity: Color band denotes cathode end

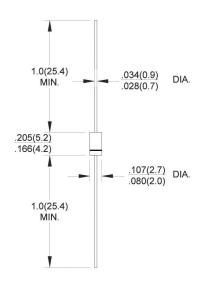
◆Lead: Plated axial lead, solderable per MIL-STD-202E

method 208C

◆ Mounting position: Any

♦ Weight: 0.012ounce, 0.33 grams

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

PARAMETER		SYMBOL	1N5817	1N5818	1N5819	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	20	30	40	Volts
Maximum RMS Voltage		VRMS	14	21	28	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	Volts
Maximum Average Forward Rectified Current at TA=75℃		I(AV)	1.0			Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)		IFSM	25			Amps
Maximum Instantaneous Forward Voltage at 1.0A		VF	0.45	0.55	0.60	Volts
Maximum Instantaneous Forward Voltage at 3.0A			0.75	0.875	0.90	Volts
Maximum DC Reverse Current	TA = 25°C	In	0.5			mA
at rated DC Blocking Voltage	TA = 125℃	IR	10			
Typical Junction Capacitance (NOTE 1)		Cı	110			pF
Typical Thermal Resistance (NOTE 2)		R _θ JA	80			°C/W
Operating and Storage Temperature Range		Tj,Tstg	-55 to +125			$^{\circ}$

Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

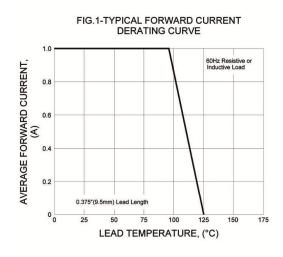
2. Thermal Resistance Junction to Ambient.

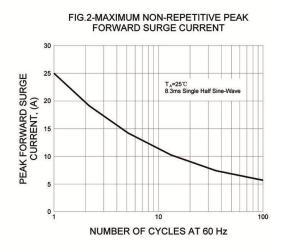


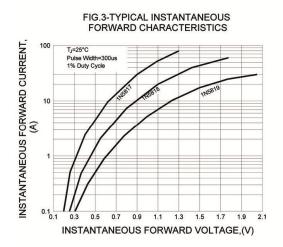
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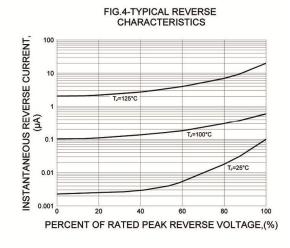
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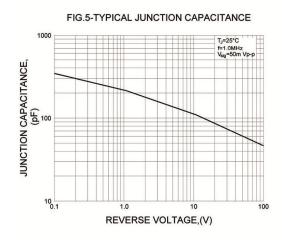
RATING AND CHARACTERISTIC CURVES 1N5817 THRU 1N5819











Note: Specifications are subject to change without notice. For more detail and update, please visit our website.