

1N5817 THRU 1N5819

## SCHOTTKY BARRIER RECTIFIER

# VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

#### **FEATURES**

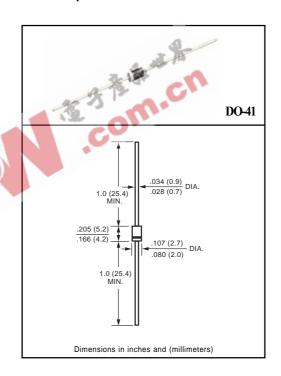
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capabitity
- \* High reliability
- \* High surge capability

# MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.33 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	1N5817	1N5818	1N5819	UNITS
Maximum Recurrent 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 .375" (9.5mm) lead length at TL = 90°C	lo	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM		Amps		
Typical Thermal Resistance (Note) 1	RθJA		°C/W		
Typical Junction Capacitance (Note 2)	Cı		pF		
Storage Operating Temperature Range	TJ, TSTG		°C		

#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	1N5817	1N5818	1N5819	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.45	.55	.60	Volts
Maximum Forward Voltage at 3.1A DC		VF	.75	.875	.90	Volts
Maximum Average Reverse Current at	@TA = 25°C	le le		1.0		mAmps
Rated DC Blocking Voltage @TA = 100°C		- IR		IIIAIIIps		

# RATING AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)

