

1N17 **THRU** 1N19

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High current capability
- * High speed switching
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-Q
- * Lead: MIL-STD-202E method 208C guaranteed
- * Weight: 0.12 gram

.787 (20.0) MIN. * Mounting position: Any .126 (3.2) .106 (2.7) .787 (20.0) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS MIN. 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%.

RATINGS	SYMBOL	1N17	1N18	1N19	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		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)	CJ		pF		
Storage and Operating Temperature Range	TJ. TSTG	•	°C		

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

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CHARACTERISTICS		SYMBOL	1N17	1N18	1N19	UNITS
Maximum 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	- IR		- mAmps		
Peak Reverse Voltage	@TA = 100°C					

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Dimensions in inches and (millimeters)

RATING AND CHARACTERISTIC CURVES (1N17 THRU 1N19)











