1N17 THRU 1N19*MINIATURE SCHOTTKY BARRIER RECTIFIERREVERSE VOLTAGE:*20 to 40 VOLTS*FORWARD CURRENT:*1.0 AMPERE



FEATURES R-1 · High current capability · Low power loss, high efficiency · Low leakage .025 (0.65) · Low forward voltage DIA. .021 (0.55) .787 (20.0) · High speed switching MİN · High surge capability · High reliability .126 (3.2) .106 (2.7) 102 (2.6) MECHANICAL DATA DIA. .091 (2.3) Case: Molded plastic, R-1 Epoxy: UL 94V-O rate flame retardant .787 (20.0) MIN Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Color band denotes cathode end **Dimensions in inches and (millimeters)** Mounting position: Any Weight: 0.0064ounce, 0.181gram

Maximum Ratings and Electrical Characteristics

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

	Symbols	<i>1N17</i>	1N18	1N19	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current	I _(AV)	1.0			Amp
.375"(9.5mm) Lead Length at T _L =90					
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	20			Amp
Maximum Forward Voltage at 1.0A DC		0.45	0.55	0.60	Volts
Maximum Forward Voltage at 3.0A DC	$V_{\rm F}$	0.75	0.875	0.90	
Maximum Reverse Current at T _A =25	т		1.0		
at Rated DC Blocking Voltage T _A =100	I _R 10				mAmp
Typical Junction Capacitance (Note 1)	CJ	110			pF
Typical Thermal Resistance (Note 2)	R _{0JA}	80			/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125			

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient 0.5"(12.7mm) lead length P.C.B. Mounted.

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RATINGS AND CHARACTERISTIC CURVES

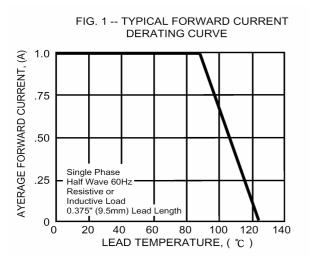
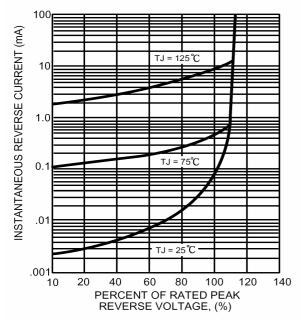


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS



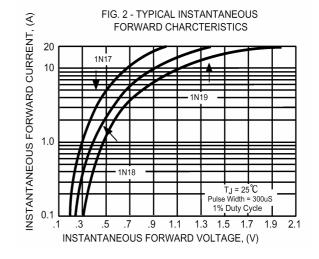


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

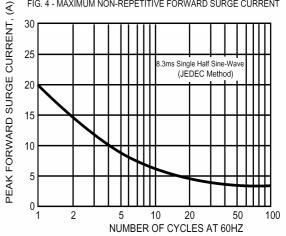


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

