## 1N17 THRU 1N19



## MINIATURE SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE:20 to 40 VOLTSFORWARD CURRENT:1.0 AMPERE

http://www.njzrg.com

#### **FEATURES**

· High current capability

· Low power loss, high efficiency

· Low leakage

· Low forward voltage

· High speed switching

· High surge capability

· High reliability

#### **MECHANICAL DATA**

Case: Molded plastic, R-1

Epoxy: UL 94V-O rate flame retardant

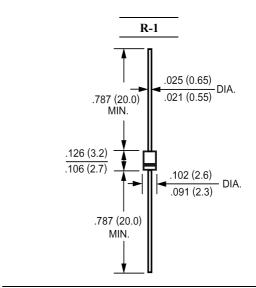
Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.0064ounce, 0.181gram



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	Symbols	1N17	1N18	1N19	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_L$ =90	I <sub>(AV)</sub>	1.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave	I <sub>ESM</sub> 20				Amp
superimposed on rated load (JEDEC method)	-F3W		20		
Maximum Forward Voltage at 1.0A DC	V	0.45	0.55	0.60	Volts
Maximum Forward Voltage at 3.0A DC	V <sub>F</sub>	0.75	0.875	0.90	
Maximum Reverse Current at T <sub>A</sub> =25			1.0	1.0	
at Rated DC Blocking Voltage T <sub>A</sub> =100	1 <sub>R</sub>	$I_{\mathbf{R}}$ 10			
Typical Junction Capacitance (Note 1)	$C_{\mathbf{J}}$	110			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	80			/W
Operating and Storage Temperature Range	T <sub>J</sub> , 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.

# GROWCHILD ELECTRONICSTM

#### RATINGS AND CHARACTERISTIC CURVES

http://www.njzrg.com

