1N1X SERIES

MINIATURE SCHOTTKY BARRIER RECTIFIER

产品规格确认书

1N17 THRU 1N19

MINIATURE SCHOTTKY BARRIER RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

REVERSE VOLTAGE: **20 to 40 VOLTS**

FORWARD CURRENT: **1.0 AMPERE**

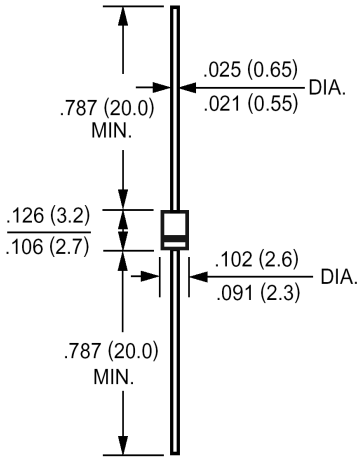
FEATURES

· 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

R-1



Dimensions in inches and (millimeters)

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	*1N17*	*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 .375"(9.5mm) Lead Length at T_L=90℃	$I_{(AV)}$	1.0			**Amp**
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	V_F	0.45	0.55	0.60	**Volts**
Maximum Forward Voltage at 3.0A DC		0.75	0.875	0.90	
Maximum Reverse Current at T_A=25℃	I_R	1.0			**mAmp**
at Rated DC Blocking Voltage T_A=100℃		10			
Typical Junction Capacitance (Note 1)	C_J	110			**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	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. 1 -- TYPICAL FORWARD CURRENT DERATING CURVE

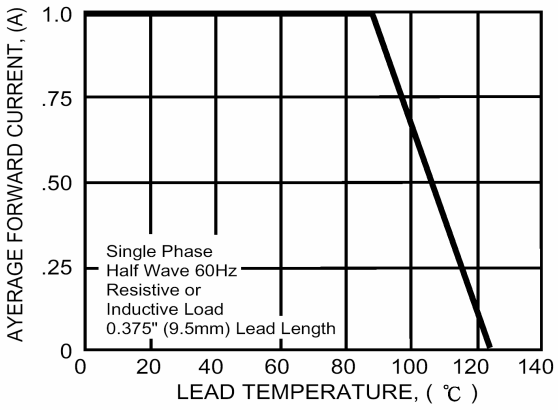

FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

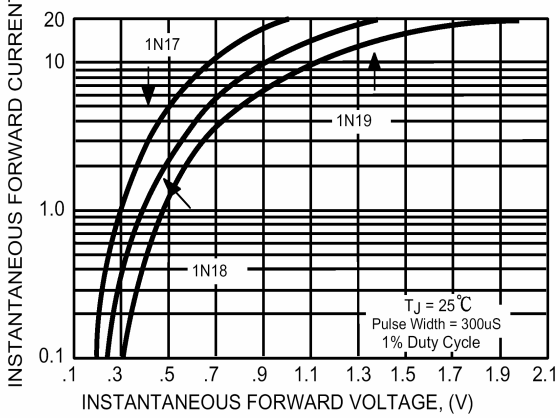

FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

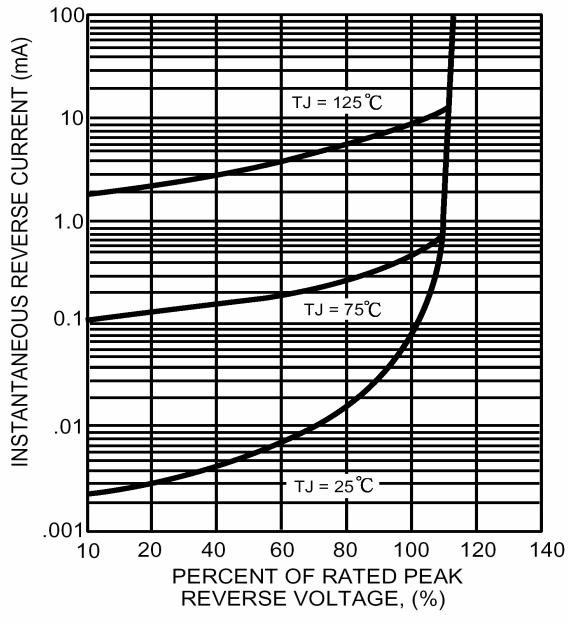

FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

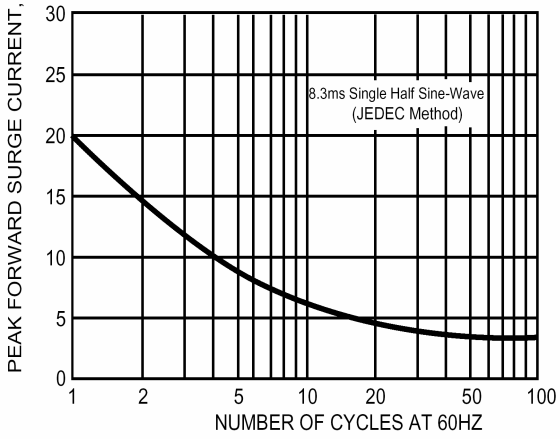

FIG. 5 - TYPICAL JUNCTION CAPACITANCE