1H1 THRU 1H8



MINIATURE HIGH EFFICIENCY RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS
FORWARD CURRENT: 1.0 AMPERE http://www.njzrg.com

FEATURES

· Plastic package has Underwriters Laboratory Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound.

 \cdot 1.0 ampere operation at T_A =55 With no thermal runaway.

· Ultra Fast switching for high efficiency.

· Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic, R-1

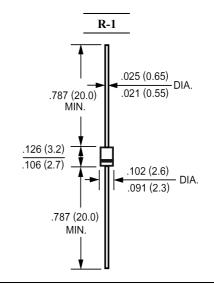
Terminals: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Band denotes cathode

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	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8	Units				
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts				
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts				
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts				
Maximum Average Forward Rectified Current	T	1.0								Amp				
.375"(9.5mm) Lead Length at T _A =55	I _(AV)													
Peak Forward Surge Current,														
8.3ms single half-sine-wave	I _{FSM} 25								Amp					
superimposed on rated load (JEDEC method)														
Maximum Forward Voltage at 1.0A and T _A =25	$V_{\rm F}$	1.0			1.3		1.7		Volts					
Maximum Reverse Current at T _J =25		5.0								uAmp				
at Rated DC Blocking Voltage T _J =100	I _R 500													
Typical Junction Capacitance (Note 1)	C_{J}	17								pF				
Maximum Reverse Recovery Time (Note 2)	T_{RR}	50 75							nS					
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	65								/W				
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150												

NOTES:

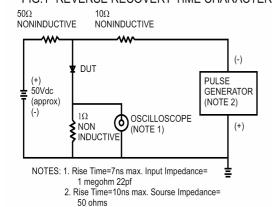
- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Reverse Recovery Test Conditions : $I_F \!\!=\! .5A$, $I_R \!\!=\! 1A$, $I_{RR} \!\!=\! .25A.$
- 3- Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) lead length P.C.B. Mounted.



RATINGS AND CHARACTERISTIC CURVES

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FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



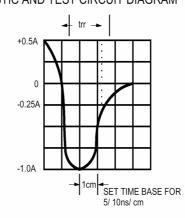
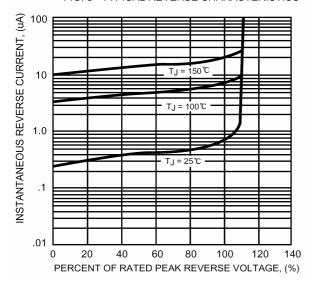


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

2.0
Single Phase Half Wave 60Hz Resistive or Inductive Load 0.375" (9.5mm) Lead Length

25 50 75 100 125 150 175 AMBIENT TEMPERATURE. (°C)

FIG. 3 - TYPICAL REVERSE CHARACTERISTICS



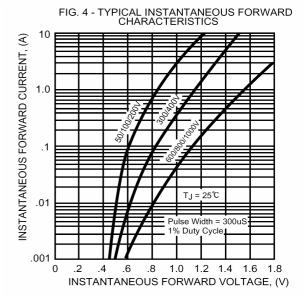


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

