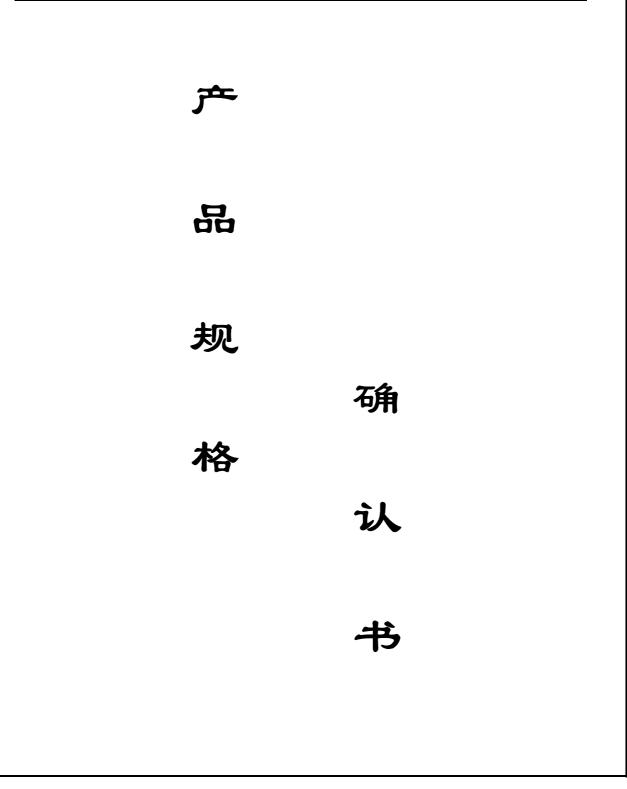
1HX SERIES

MINIATURE HIGH EFFICENCY RECTIFIER



1H1 THRU 1H8

MINIATURE HIGH EFFICIENCY RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 1.0 AMPERE

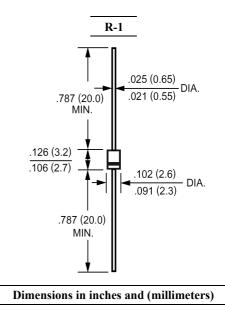


Plastic package has Underwriters Laboratory
Flammability Classification 94V-O ctilizing
Flame Retardant Epoxy Molding Compound.

- \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



rk.

HORNBY ELECTRONIC

3

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	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	т	10								Атр
.375"(9.5mm) Lead Length at T _A =55	I _(AV) 1.0									
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 _F	1.0 1.3 1.7						Volts		
Maximum Reverse Current at T _J =25	T	5.0								uAmp
at Rated DC Blocking Voltage T _J =100	I _R 500									
Typical Junction Capacitance (Note 1)	CJ	17								pF
Maximum Reverse Recovery Time (Note 2)	T _{RR}	50 75							nS	
Typical Thermal Resistance (Note 3)	R _{0JA}	65								/W
Operating and Storage Temperature Range	$T_{\rm J}$, Tstg	-55 to +150								

NOTES:

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

2- Reverse Recovery Test Conditions : $I_{F} {=} .5 A$, $I_{R} {=} 1 A$, $I_{RR} {=} .25 A.$

3- Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) lead length P.C.B. Mounted.

1H1 THRU 1H8 *MINIATURE HIGH EFFICENCY RECTIFIER*

RATINGS AND CHARACTERISTIC CURVES

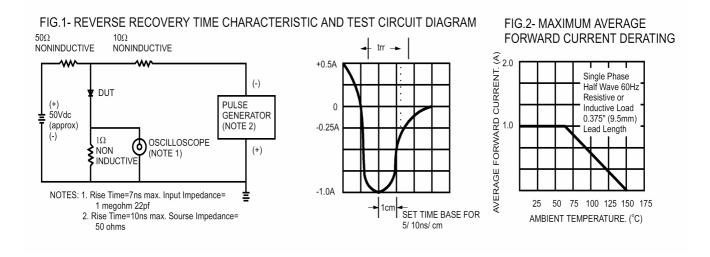


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

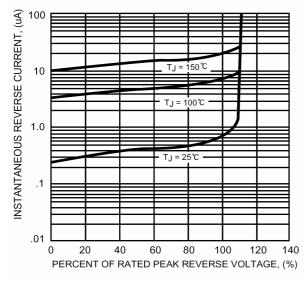


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

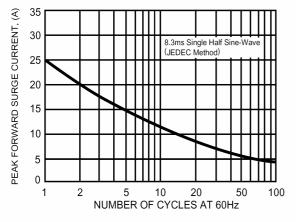


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

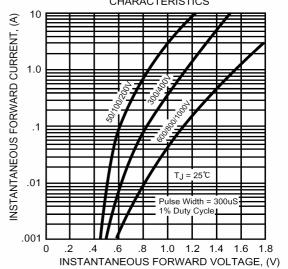


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

