



HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

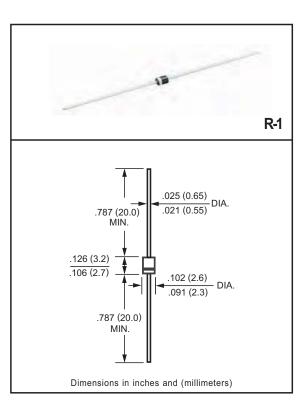
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High current capability
- * High speed switching
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.12 gram



Ratings at 25 $^\circ\text{C}$ ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA= 25°C	lo	1.0					Amps			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	25					Amps			
Typical Current Squared Time	I ² T	2.5						A ² S		
Typical Junction Capacitance (Note 2)	CJ	15 12						pF		
Operating and Storage Temperature Range	Tj, Tstg	-55 to + 150						° C		

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

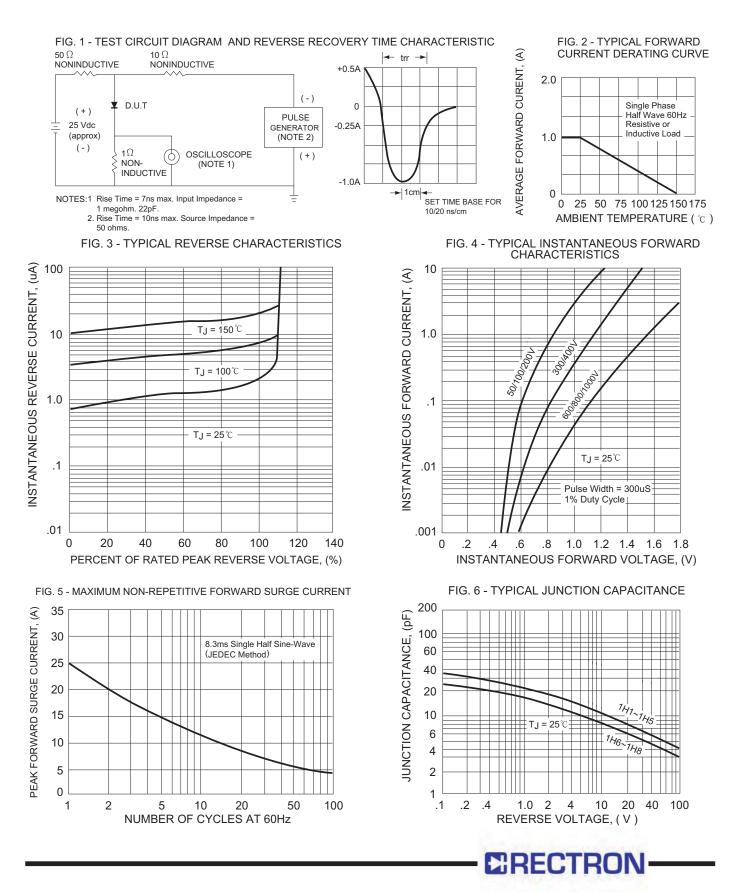
CHARACTERISTICS	SYMBOL	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	VF		1.0 1.3		1.7		Volts			
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C		5.0					uAmps			
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 55°C	- IR	100					uAmps			
Maximum Reverse Recovery Time (Note 1)	trr			50				75		nSec

NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

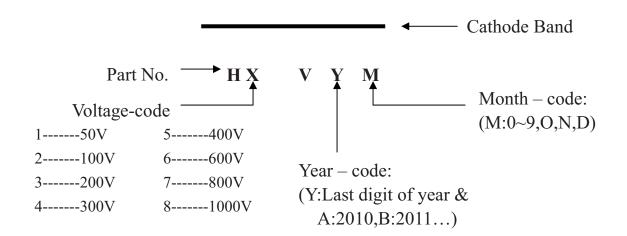
2. Measured at 1 $\ensuremath{\text{MHz}}$ and applied reverse voltage of 4.0 volts

3. Available in Halogen-free epoxy by adding suffix "CHF after the part nbr

RATING AND CHARACTERISTIC CURVES(1H1 THRU 1H8)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
R-1	-T	5,000	5,000	5.0	52	330	355*350*335	20,000	7.37

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
R-1	-F	3,000	5.0	52	255*73*100	400*268*225	30,000	8.5
R-1	-E	3,000	5.0	26	256*48*94	365*270*217	42,000	8.35
R-1	-J	3,000	12.7		325*170*40	355*350*335	42,000	13.93
R-1	-1	2,000	12.7		325*170*40	355*350*335	28,000	9.69

BULK PACK

PACKAGE	PACKING CODE EA PER BO		INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
R-1	-B	1000	192*75*21	415*220*255	50,000	11.74	

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