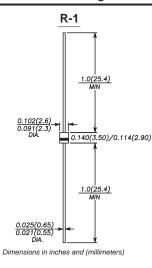
1H1G THRU 1H8G

GLASS PASSIVATED HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Glass passivated junction

MECHANICAL DATA

Case: R-1 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.20 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	1H1G	1H2G	1H3G	1H4G	1H5G	1H6G	1H7G	1H8G	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current	I _(AV) 1.0							Α		
0.375"(9.5mm) lead length at Ta=25℃										
Peak forward surge current										
8.3ms single half sine-wave superimposed on	IFSM	IFSM 25.0							Α	
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.0A	VF	1.0		1.3		1.70			V	
Maximum DC reverse current Ta=25℃			5.0							μА
at rated DC blocking voltage Ta=100℃	l _R	100.0							μΑ	
Maximum reverse recovery time (NOTE 1)	trr	50			75			ns		
Typical junction capacitance (NOTE 2)	Cı	15.0			12.0		pF			
Typical thermal resistance (NOTE 3)	RθJA	50.0						°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

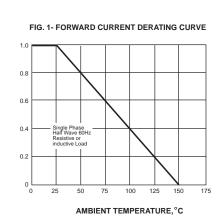
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES 1H1G THRU 1H8G







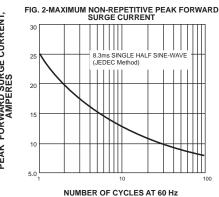


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

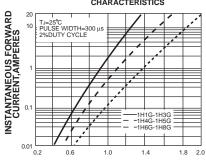
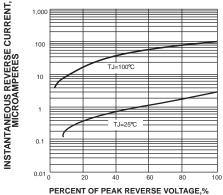


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

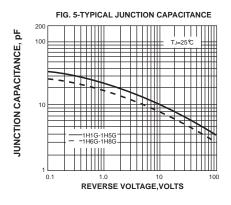
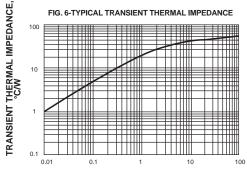


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t,PULSE DURATION,sec.

