

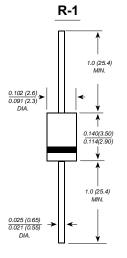
Data Sheet 4800, Rev.-

Green Products

1H1-G THRU 1H8-G

HIGH EFFICIENCY RECTIFIERS

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



Dimensions in inches and (millimeters)

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: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- ◆ Green Products in Compliance with the RoHS Directive

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	1H1-G	1H2-G	1H3-G	1H4-G	1H5-G	1H6-G	1H7-G	1H8-G	UNITS
Maximum repetitive 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	VDC	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=25℃	I _(AV)	1.0							Amps	
Peak forward surge current										
8.3ms single half sine-wave superimposed on	IFSM	Ifsm 25.0							Amps	
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.0A	V _F	1.0		1.3			1.70		Volts	
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 100.0						μΑ		
Maximum reverse recovery time (NOTE 1)	trr	50					70			ns
Typical junction capacitance (NOTE 2)	Сл	15.0			12.0			pF		
Typical thermal resistance (NOTE 3)	Reja		50.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 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.

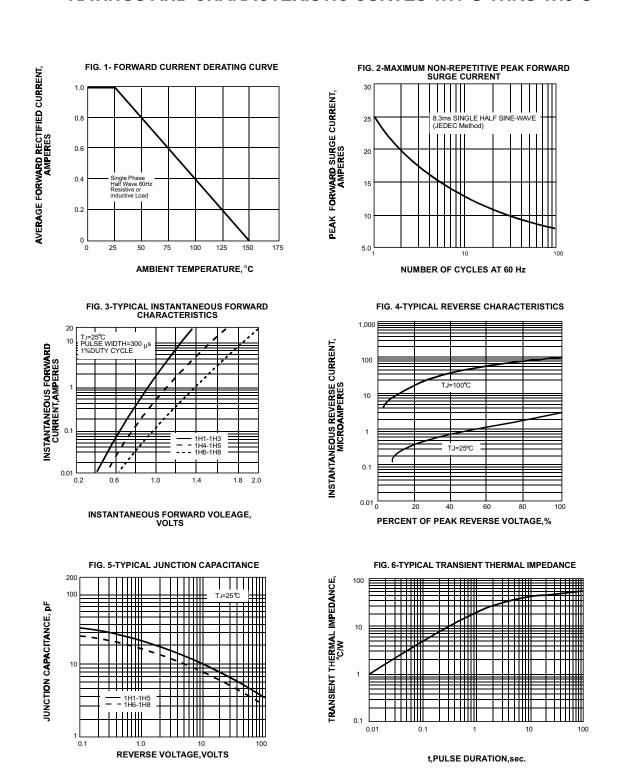
3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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RATINGS AND CHARACTERISTIC CURVES 1H1-G THRU 1H8-G



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