



SURFACE MOUNT HIGH EFFICIENCY SILICON RECTIFIER

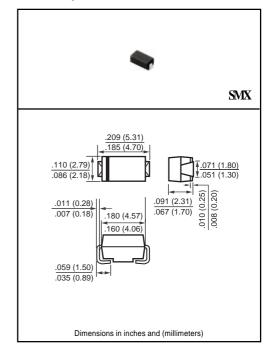
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0



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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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

RATINGS	SYMBOL	HFM101W	HFM102W	HFM103W	HFM104W	HFM105W	HFM106W	HFM107W	HFM108W	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Volts	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 Current at TA = 50° C	lo	1.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	Ігѕм	30								Amps
Typical Junction Capacitance (Note 2)	CJ	15 12						pF		
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150								°C

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

CHARACTERISTICS		SYMBOL	HFM101W	HFM102W	HFM103W	HFM104W	HFM105W	HFM106W	HFM107W	HFM108W	UNITS
Maximum Forward Voltage at 1.0A DC		VF	1.0		1.3		1.7		Volts		
Maximum Full Load Reverse Current, Full cycle Average TA=55°C				50							
Maximum DC Reverse Current at	@TA = 25°C	IR	5.0								uAmps
Rated DC Blocking Voltage	@TA = 125°C		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 MHz and applied reverse voltage of 4.0 volts.

3. "Fully ROHS compliant","100% Sn plating (Pb free).

RATING AND CHARACTERISTIC CURVES (HFM101W THRU HFM108W)

