

HFM101 THRU HFM108

1.0A Surface Mount High Effciency Rectifiers -50V- 1000V

SMA PACKAGE

FEATURES

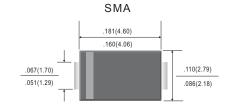
- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Moisture Sensitivity Level 1
- * Pb-Free package is available

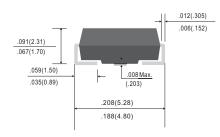
RoHS product for packing code suffix "G" Halohen free product for packing code suffix "H"

MECHANICAL DATA

- * Case: Molded plastic, DO-214AC (SMA)
- * Epoxy: Device has Ulflammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.064 gram (Approximated)







Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive of inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	HFM101	HFM102	HFM103	HFM104	HFM105	HFM106	HFM107	HFM108	UNIT
Marking Code		H1	H2	Н3	H4	H5	H6	H7	H8	
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 Current	lo		Amps							
at TA = 50°C	10									
Peak Forward Surge Current 8.3 ms single half sine-waj Y	IFSM		Amns							
superimposed on rated load (JEDEC method)	IFSM 30								Amps	
Typical Thermal Resistance (Note 1)	Roja	75								°C/W
Typical Thermal Resistance (Note 1)		25								C/ VV
Typical Junction Capacitance (Note 2)	Сл	15 12						РF		
Operating Temperature Range	TJ	-55 to +150							°C	
Storage Temperature Range	TsTg	-55 to +150							°C	

CHARACTERISTIC	SYMBOL	HFM101	HFM102	HFM103	HFM104	HFM105	HFM106	HFM107	HFM108	UNIT	
Maximum Forward Voltage at 1.0A I	OC .	VF	1.00 1.30 1.70		Volts						
Maximum Full load Reverse Current	_	50.00									
cycle Average TA=55°C											
Maximum DC Reverse Current	@ TA = 25°C	l _R	5.0								μAmps
at Rated DC Blocking Voltage	@ TA = 125°C	100.0									
Maximum Reverse Recovery Time (Note 3)			50 7				75		nSec		

NOTES: 1.Thermal Resistance: Mounted on PCB.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3.Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A



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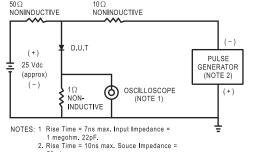
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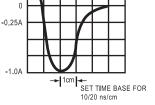
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RATING AND CHARACTERISTIC CURVES (HFM101 THRU HFM108)

+0.5A







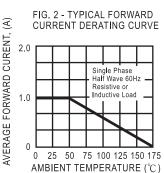
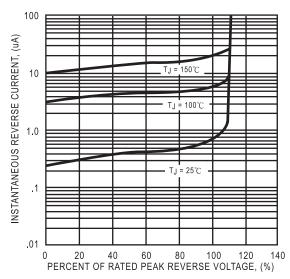
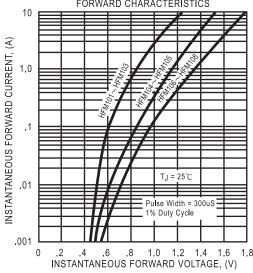


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS









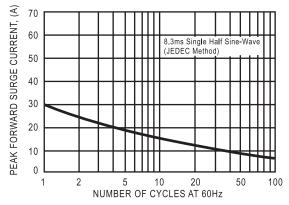


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

