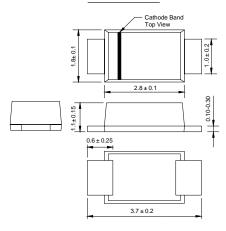


# HFM101-M THRU HFM107-M

## SURFACE MOUNT HIGH EFFICIENCY RECTIFIER

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

### SOD-123FL



Dimensions in millimeters

## **FEATURES**

- Glass passivated device
- ◆ Ideal for surface mouted applications
- ◆ Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### MECHANICAL DATA

**Case**: JEDEC SOD-123FL molded plastic body over passivated chip **Terminals**: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

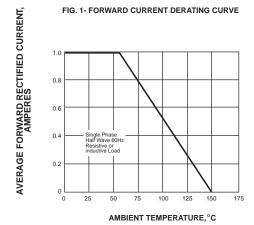
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

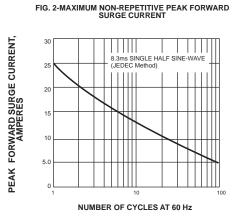
MDD Catalog Number	SYMBOLS	HFM101-M U1A	HFM102-M U1B	HFM103-M U1D	HFM104-M U1G	HFM105-M U1J	HFM106-M U1K	HFM107-M U1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	l(AV)	1.0						Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İfsm				25.0				Amps
Maximum instantaneous forward voltage at1.0A	VF		1.0		1.3		1.7	7	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 75					ns		
Typical thermal resistance	RθJA	180						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

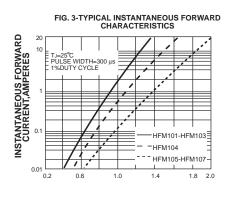
Note: 1.Measured with IF=0.5A, IR=1A, Irr=0.25A.

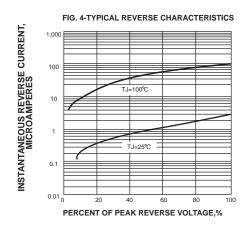


## RATINGS AND CHARACTERISTIC CURVES HFM101-M THRU HFM107-M









INSTANTANEOUS FORWARD VOLTAGE, VOLTS

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

