

FFM101-M THRU FFM107-M

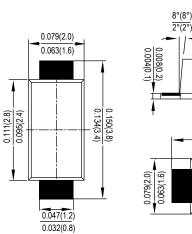
SINGLE PHASE 1.0AMP SURFACE MOUNT FAST RECOVERY RECTIFIER

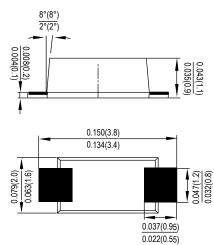
Features

- · Glass passivated die construction
- Ideal for surface mouted applications
- · Low reverse leakage
- · Metallurgically bonded construction
- High temperature soldering guaranteed: 260 °C /10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Plastic material-UL flammability 94V-0

Mechanical Data

- · Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Mounting position: Any





Dimensions in inches and (millimeters)

SOD-123FL

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	FFM101-M	FFM102-M	FFM103-M	FFM104-M	FFM105-M	FFM106-M	FFM107-M	UNITS
	Code	F1	F2	F3	F4	F5	F6	F7	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM								
	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L =90°C	I F(AV)	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	30							Α
I ² t Rating for Fusing (t < 8.3ms)	l ² t	3.735							A ² s
Forward Voltage per element @IF=1.0A	Vғм	1.3							V
Peak Reverse Current @TA =25℃ At Rated DC Blocking Voltage @TA =125℃	lr	5.0 100							uA
Maximum reverse recovery time (NOTE 1)	trr	150 250 500				00	ns		
Typical junction capacitance (NOTE 2)	Сı	4							pF
Operating and Storage Temperature Range	Т _J ,Тsтg	-55to+150							$^{\circ}$

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

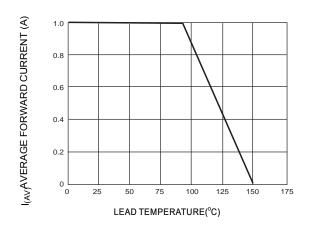
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V D.C.

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FIG. 1- FORWARD CURRENT DERATING CURVE



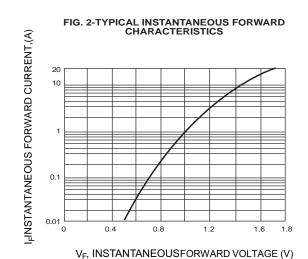
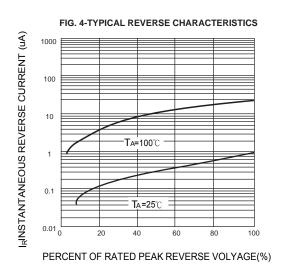
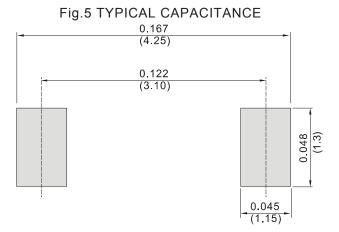


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

30
25
20
15
10
10
NUMBER OF CYCLES AT 60 Hz





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