

SUFACE MOUNT FAST RECOVERY RECTIFIER

FFM101-M THRU FFM107-M

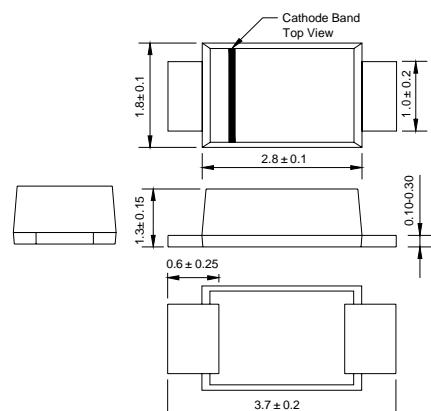
VOLTAGE RANGE
CURRENT

50 to 1000 Volts
1.0 Ampere

FEATURES

- Glass passivated device
- Ideal for surface mounted 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

SOD-123FL



Dimensions in millimeters

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%.

	SYMBOLS	FFM101-M F1	FFM102-M F2	FFM103-M F3	FFM104-M F4	FFM105-M F5	FFM106-M F6	FFM107-M F7	UNITS			
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS			
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS			
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS			
Maximum average forward rectified current at $T_A=65^\circ C$ (NOTE 1)	$I_{(AV)}$	1.0							Amp			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) $T_L=25^\circ C$	I_{FSM}	25.0							Amps			
Maximum instantaneous forward voltage at 1.0A	V_F	1.3							Volts			
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=125^\circ C$	I_R	5.0 50.0							μA			
Maximum reverse recovery time (NOTE 2)	t_{rr}	150		250	500				ns			
Typical junction capacitance (NOTE 3)	C_J	15							pF			
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ C$			

Note: 1.Averaged over any 20ms period.

2.Measured with $IF=0.5A$, $IR=1A$, $Irr=0.25A$.

3.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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Fig.1 Forward Current Derating Curve

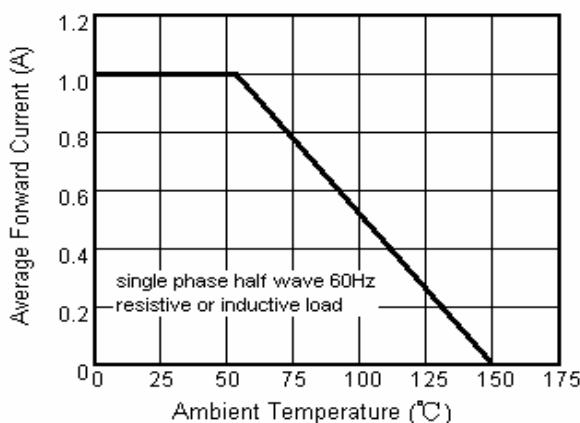


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

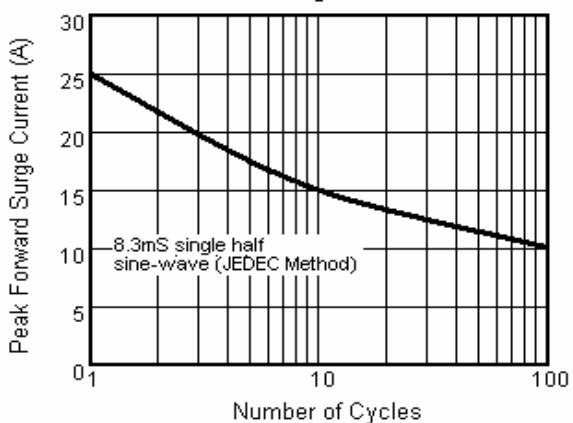


Fig.3 Typical Instantaneous Forward Characteristics

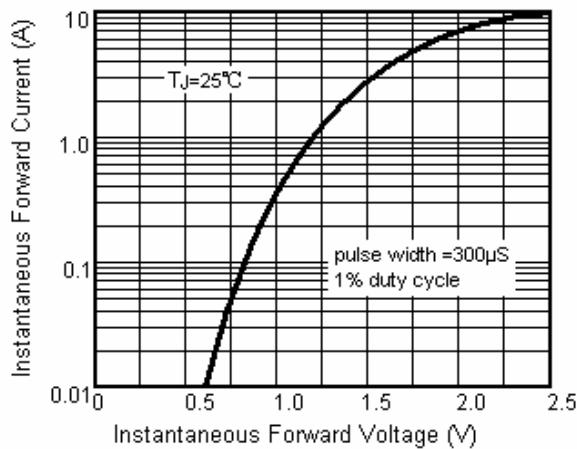


Fig.4 Typical Reverse Characteristics

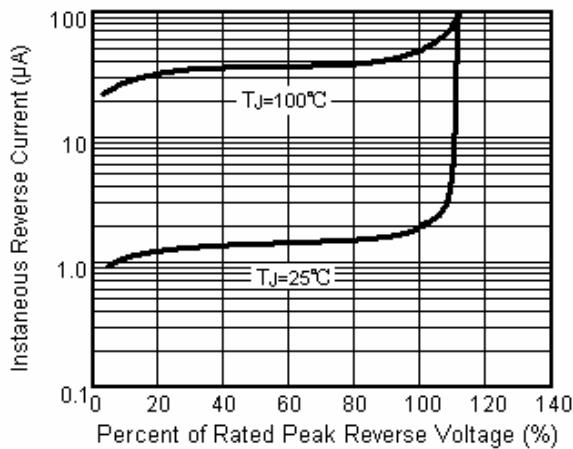


Fig.5 Typical Junction Capacitance

