



SURFACE MOUNT GLASS PASSIVATED FAST RECOVERY SILICON RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.015 gram

MECHANICAL DATA

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

DISCONTINUED-

"This series is replaced by the FFM10X series that meets to the same fit and function parameters and share the same solder pad layout. The FFM10X series is preferred for error-free vacuum pick-up and PCB assembly."

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

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

RATINGS	SYMBOL	FSM101	FSM102	FSM103	FSM104	FSM105	FSM106	FSM107	UNITS
Maximum Recurrent 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	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_A = 55^{\circ}C$	IO	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30							Amps
Typical Thermal Resistance (Note 4)	R _{0JA}	75							°C/W
	R _{0JL}	30							
Typical Junction Capacitance (Note 2)	CJ	15							pF
Operating and Storage Temperature Range	Tj, T _{STG}	-55 to + 150							٥C

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

CHARACTERISTICS		SYMBOL	FSM101	FSM102	FSM103	FSM104	FSM105	FSM106	FSM107	UNITS
Maximum Instantaneous Forward Voltage at 1.0ADC	VF	1.3						Volts		
Maximum DC Reverse Current	@T _A = 25°C	IR	2.0							mAmps
at Rated DC Blocking Voltage	@T _A = 100°C		100							
Maximum Reverse Recovery Time (Note 1)		trr		1	50		250	5	00	nSec

NOTES : 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

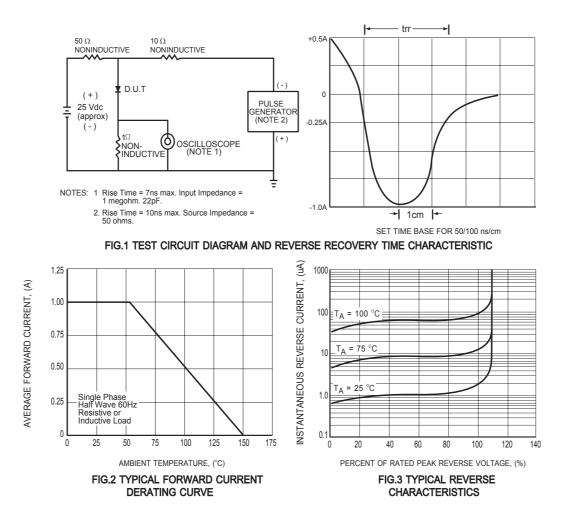
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

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

4. Thermal Resistance : Mounted on PCB.

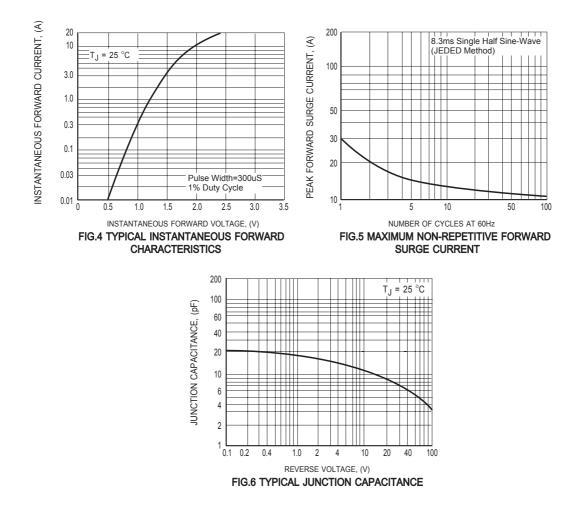
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RATING AND CHARACTERISTICS CURVES (FSM101 THRU FSM107)



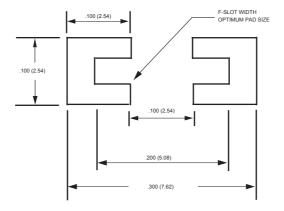








Mounting Pad Layout



Dimensions in inches and (millimeters)

