

FM4001W THRU FM4007W

SURFACE MOUNT SILICON RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

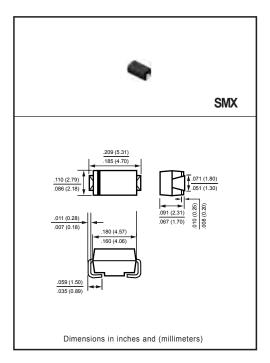
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.078 gram

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specfied. Resistive or inductive load.



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

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RATINGS	SYMBOL	FM4001W	FM4002W	FM4003W	FM4004W	FM4005W	FM4006W	FM4007W	UNITS	
Maximum Recurrent Peak Reverse Voltage		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 Ambient Temperature	I _O	1.0			Amps					
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}				30			Amps		
Typical Current Square Time	I ² T				3.7				A ² S	
Typical Thermal Resistance (Note 1)	R _{θJA}				80				°C/W	
Typical Thermal Resistance (Note 1)	RθJL	30						°C/W		
Typical Junction Capacitance (Note 2)	CJ				15				pF	
Operating Temperature Range	TJ	·	•	·	150					
Storage Temperature Range	T _{STG}		•		-55 to + 150				٥C	

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

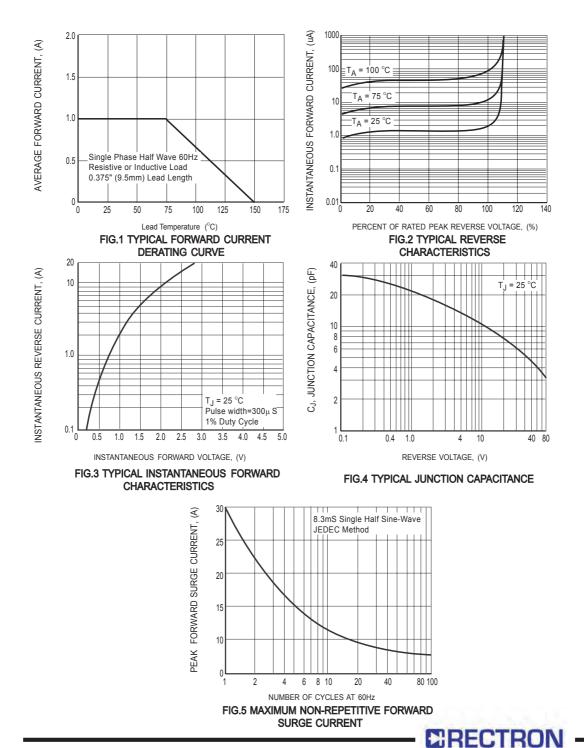
			,							
CHARACTERI	SYMBOL	FM4001W	FM4002W	FM4003W	FM4004W	FM4005W	FM4006W	FM4007W	UNITS	
Maximum Instantaneous Forward Voltag	e at 1.0A DC	V _F				1.1				
Maximum Full Load Reverse Current, Full cycle Average at T _A =75°C		30					uA			
Maximum Average Reverse Current	@T _A = 25°C] , [5.0				uA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R				100				uA

NOTES: 1. Thermal Resistance: Mounted on PCB.

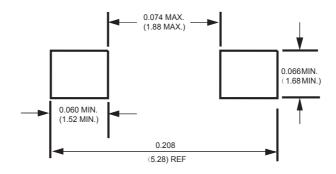
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2009-08 REV: B

RATING AND CHARACTERISTICS CURVES (FM4001W THRU FM4007W)



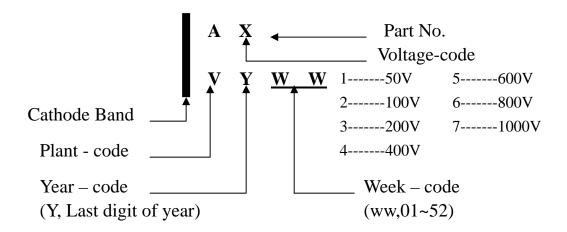
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SMX	-T	1,500			180	390*205*310	48,000	
SMX	-W	5,000			330	355*360*350	80,000	15.20

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FM4004W-W FM4007W-W FM4001L-W FM4006W-W-S-R01 FM4007-W-S-NT FM4004-W-S-NT FM4004W-W-S-NT FM4006-W-S-NT FM4002-W-S-NT