



SURFACE MOUNT SILICON RECTIFIER

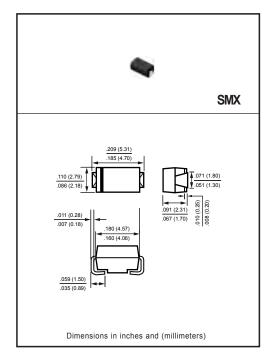
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

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)

RATINGS		FM4001W	FM4002W	FM4003W	FM4004W	FM4005W	FM4006W	FM4007W	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		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 ₀		1.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)						Amps			
Typical Current Square Time	I ² T	3.7							A ² S
Typical Thermal Resistance (Note 1)		80							°C/W
Typical Thermal Resistance (Note 1)		30							°C/W
Typical Junction Capacitance (Note 2)	CJ	15							pF
Operating Temperature Range	TJ	150							٥C
Storage Temperature Range	T _{STG}	G -55 to + 150					٥C		

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

CHARACTERI	SYMBOL	FM4001W	FM4002W	FM4003W	FM4004W	FM4005W	FM4006W	FM4007W	UNITS	
OTARAOTERI	OTWIDOL	1 10 400 100	1 10 400211	1 111400011	1 10 400 411	1 101400011	1 101400011	1 1014007 11		
Maximum Instantaneous Forward Voltag	e at 1.0A DC	C V _F 1.1					Volts			
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 IR				100				uA

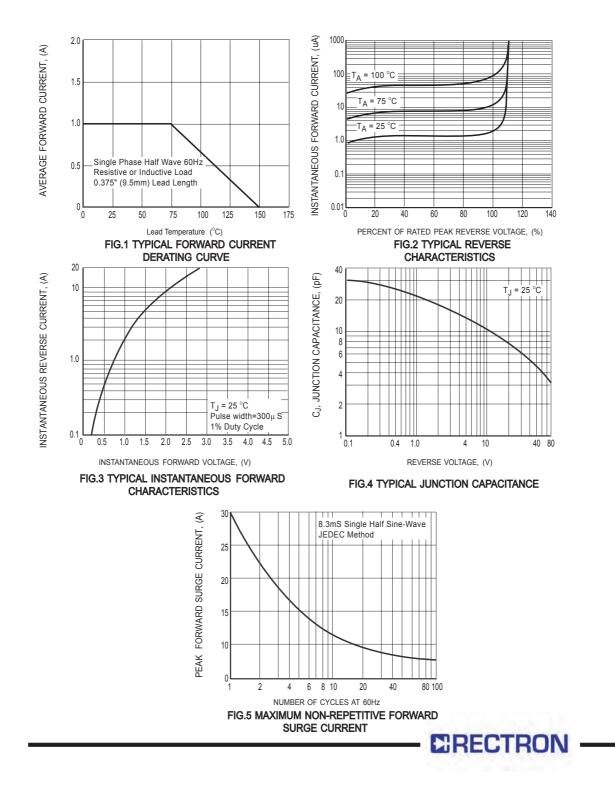
NOTES : 1. Thermal Resistance :Mounted on PCB.

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

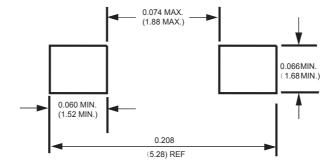
3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2009-08 REV: B





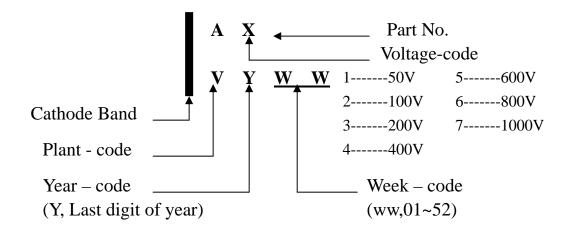
Mounting Pad Layout



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)	EA PER CARTON	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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