

FM4001W THRU FM4007W

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

FEATURES

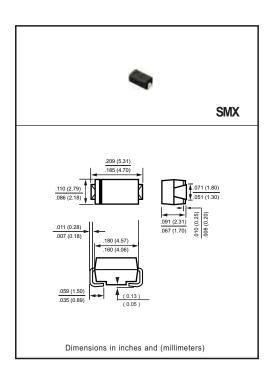
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.078 gram

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



$\textbf{MAXIMUM RATINGS} \ (@\ \mathsf{TA=25\ ^{\circ}C}\ unless\ otherwise\ noted)$

RATINGS	SYMBOL	FM4001W	FM4002W	FM4003W	FM4004W	FM4005W	FM4006W	FM4007W	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	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at Ambient Temperature	I _O	1.0							
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	80							°C/W
Typical Thermal Resistance (Note 1) R _{θJL} 30									°C/W
Typical Current Squared Time	I ² T	3.74							A ² S
Typical Junction Capacitance (Note 2)	C _J	15							pF
perating Temperature Range T _J -55 to + 150							٥C		
Storage Temperature Range T _{STG} -5									٥C

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

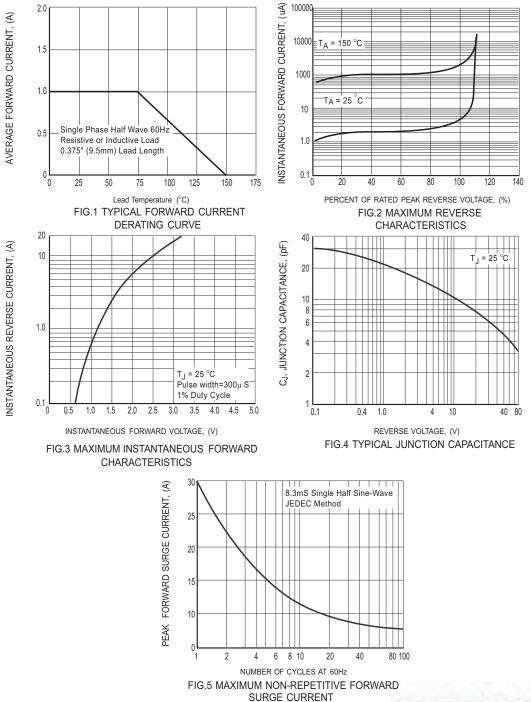
CHARACTERIS	SYMBOL	FM4001W	FM4002W	FM4003W	FM4004W	FM4005W	FM4006W	FM4007W	UNITS
Maximum Instantaneous Forward Voltage	V _F	1.1							
Maximum Full Load Reverse Current, Full cycle Average at T_A =75°C		30							uA
Maximum Average Reverse Current	I _R	5.0							uA
at Rated DC Blocking Voltage		2.0							

NOTES: 1. Thermal Resistance: Mounted on PCB.

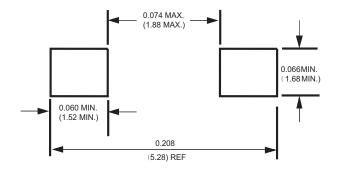
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "ROHS compliant".

2018-09 REV: E

RATING AND CHARACTERISTICS CURVES (FM4001W THRU FM4007W)



Mounting Pad Layout



Dimensions in inches and (millimeters)



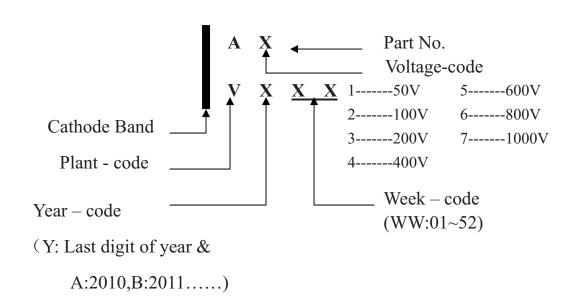


Attachment information about FM400XW

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMX	-W	7,500	15,000			330	360*355*360	120,000	15.2

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMX	-T	2,000	8,000			178	390*205*310	64,000	7.8

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