

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 100 Volts CURRENT 1.0 Amperes

FEATURES

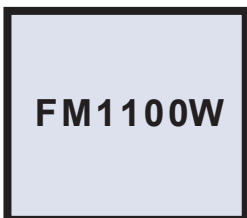
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.078 gram

MECHANICAL DATA

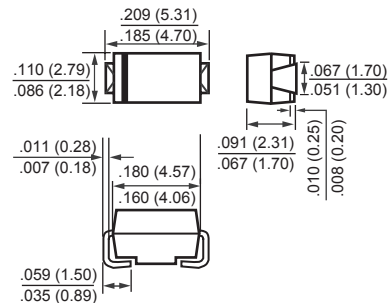
- * Epoxy: Device has UL flammability classification 94V-O
- * Moisture Sensitivity Level 1

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%.



SMX



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

RATINGS	SYMBOL	FM1100W	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	Volts
Maximum RMS Voltage	VRMS	70	Volts
Maximum DC Blocking Voltage	VDC	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	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 Current Square Time	I ² T	6.6	A ² S
Typical Thermal Resistance (Note 1)	RθJA	85	°C/W
	RθJL	25	
Typical Junction Capacitance (Note 2)	CJ	30	pF
Operating Temperature Range	TJ	-55 to + 150	°C
Storage Temperature Range	TSTG	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	FM1100W	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	.85	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	0.5	mAmps
	@TA = 100°C	20	mAmps

- NOTES : 1. Thermal Resistance (Junction to Ambient).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B Mounted with 0.4X0.4" (10.0X10.0mm²) copper pad area.

RATING AND CHARACTERISTIC CURVES (FM1100W)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

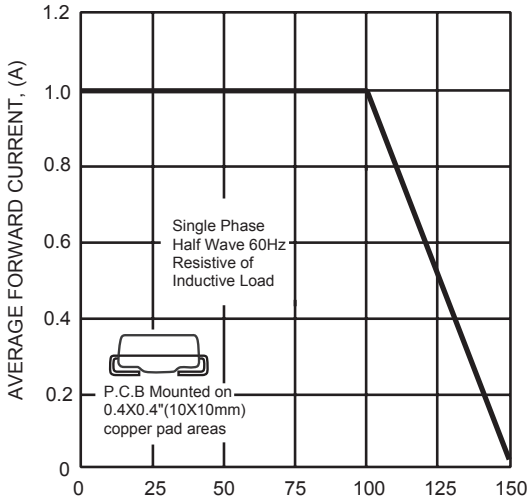


FIG.2 TYPICAL REVERSE CHARACTERISTICS

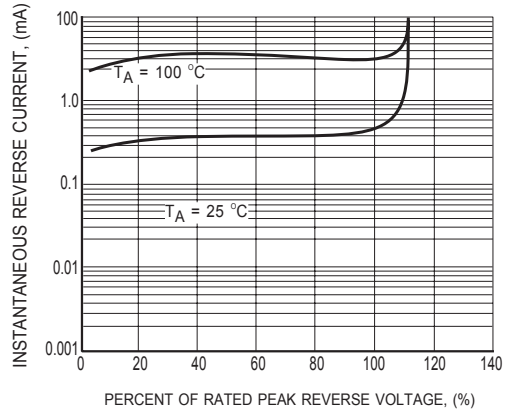


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

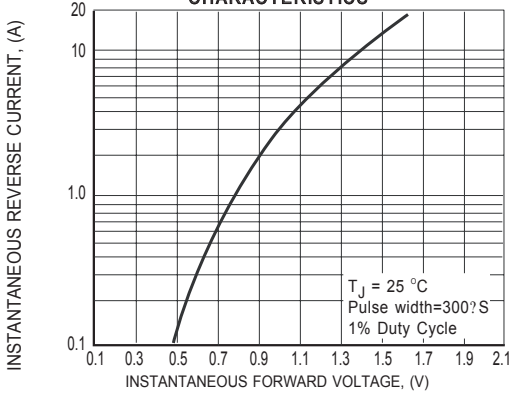


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

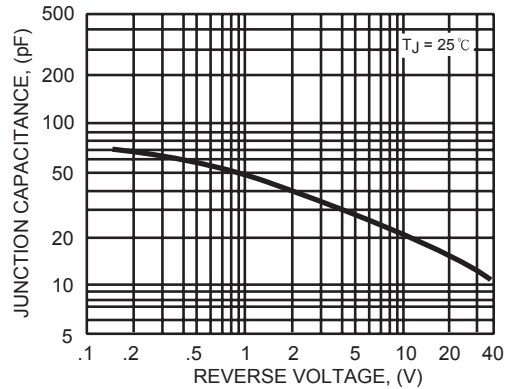
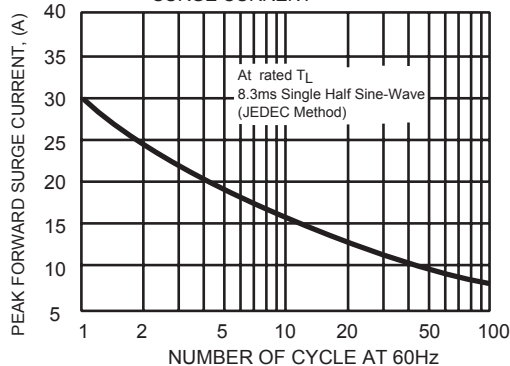


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



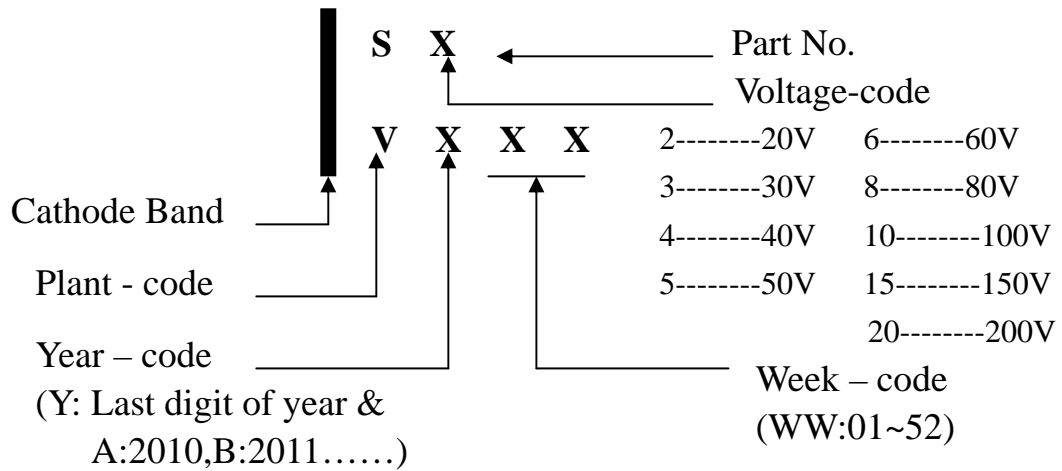


Attachment information about FM1XX

1. Internal Circuit



2. Marking on the body





Attachment information about FM1XX

4. Items marked on the reel box and carton

4.1 On the reel (for -T & -W)

CUSTOMER

TYPE

QUANTITY

LOT NO.

Q.A.

REMARK

4.2 On the box (for -T & -W)

TYPE

QUANTITY

LOT NO.

Q.A.

4.3 On the carton

CUSTOMER

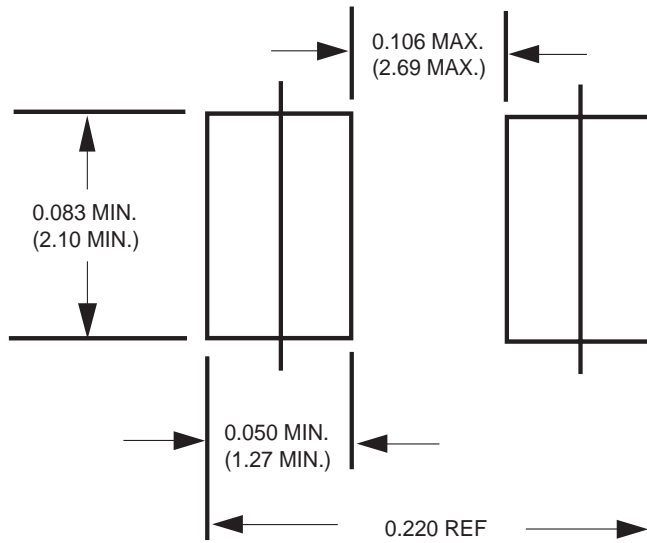
TYPE

QUANTITY

LOT NO.

REMARK

Mounting Pad Layout



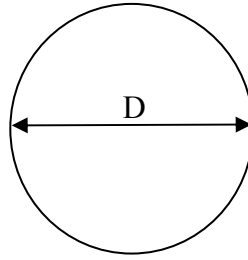
Dimensions in inches and (millimeters)

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

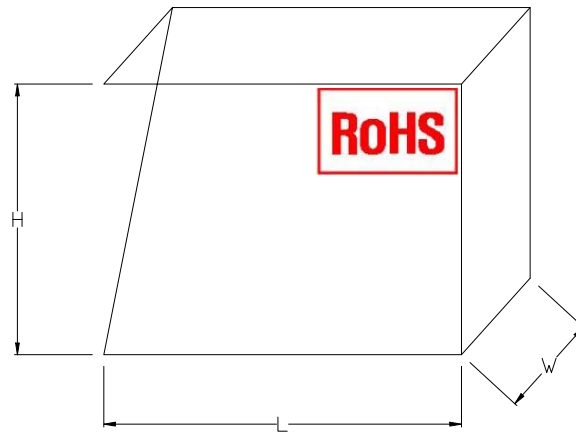
PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMX	-T	1,500	---	---	180	390*205*310	48,000	---
SMX	-W	5,000	---	---	330	355*360*350	80,000	15.20

1. REEL



Packing Code	D (mm)
-T	180
-W	330

2. CARTON



Packing Code	L (mm)	W (mm)	H (mm)
-T	390	205	310
-W	355	360	350

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