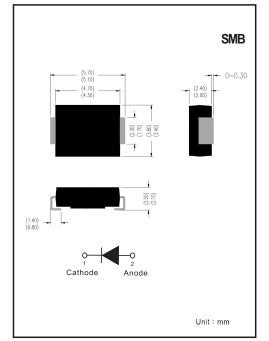




#### SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER VOLTAGE RANGE 2000 Volts CURRENT 2.0 Ampere

#### FEATURES

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

RATINGS	SYMBOL	FM22000	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	2000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	1400	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	2000	Volts
Maximum Average Forward Rectified Current at Terminals Temperature	lo	2.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	55	Amps
Current Squarad Time	l <sup>2</sup> t	12.55	A <sup>2</sup> Sec
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	50	°C/W
Typical Thermal Resistance (Note 1)	R <sub>θJT</sub>	15	°C/W
Operating Temperature Range	TJ	-50 to + 150	٥C
Storage Temperature Range	T <sub>STG</sub>	-50 to + 150	°C

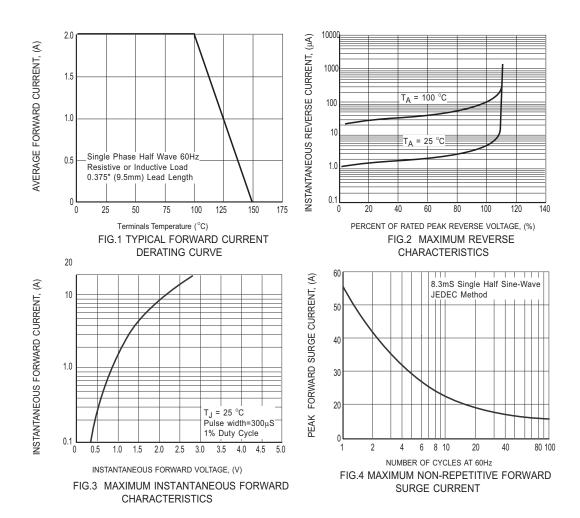
#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

ELECTRICAL CHARACTERISTICS(@1A=25 °C unless otherwise noted)								
CHARACTERI	STICS	SYMBOL	FM22000	UNITS				
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	1.15	Volts				
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C		5.0	μA				
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	I R	100	μA				
Typical Reverse Recovery Time (Note 2	2)	trr	3.5	uSec				

NOTES : 1. Thermal Resistance :Mounted on PCB.

2. Test Conditions: I\_F= 0.5A, I\_R= -1.0A, I\_{RR}= -0.25A.

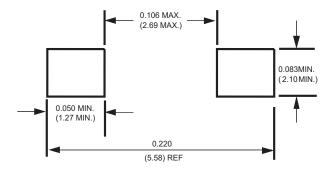
2024-05/104 REV:O



### **RATING AND CHARACTERISTICS CURVES (FM22000)**



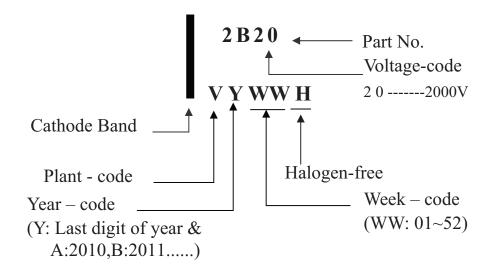
## **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# **Marking Description**





# 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)
SMB	-W/-T	3,000	6,000			330	360*355*360	48,000	13.90

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