

## MB1F THRU **MB10F**

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 100 to 1000 Volts CURRENT 0.8 Ampere

#### **FEATURES**

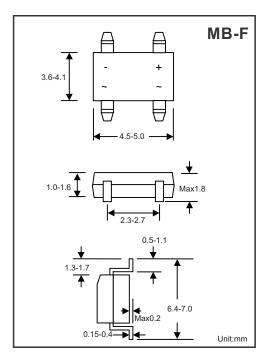
- \* Surge overload rating 30 amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded
- \* Glass passivated device
- \* Polarity symbols molded on body
- \* Mounting position: Any

#### **MECHANICAL DATA**

\* Epoxy: Device has UL flammability classification 94V-O

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



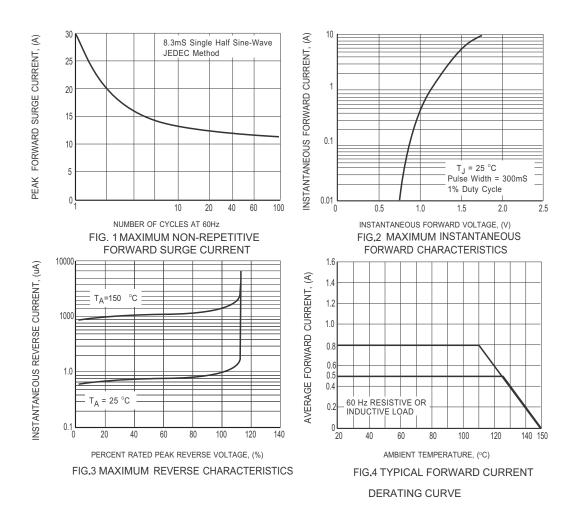
RATINGS	SYMBOL	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS	
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	100	200	400	600 800 1000			Volts
Maximum RMS Bridge Input Voltage		V <sub>RMS</sub>	MS 70 140 280 420 560 700				Volts		
Maximum DC Blocking Voltage		V <sub>DC</sub>	100	200	400	600	800	Volts	
Maximum Average Forward Rectified Current	T <sub>A</sub> = 125 °C T <sub>A</sub> = 110 °C	Io			0.8				Amps
Peak Forward Surge Current 8.3 ms single half superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30						Amps	
Peak Forward Surge Current 10 ms single half superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	27.3						Amps	
Typical Current Squarad Time	l²t	3.74						A <sup>2</sup> S	
Tuning Thermal Decistor on (Note 2)	R <sub>θJA</sub>	64							
Typical ThermalResistance(Note2)		R <sub>θJL</sub>	39					- °C/W	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						۰c	

## ELECTRICAL CHARACTERISTICS (At T<sub>A</sub> = 25°C unless otherwise noted)

CHARACTERISTICS	CHARACTERISTICS			MB2F	MB4F	MB6F	MB8F	MB10F	UNITS	
Maximum Forward Voltage Drop per Bridge		Ve			1	1			Volts	
Element at 0.8 A DC		V F			'	.1			VOILS	
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	la la	1.0						uAmps	
DC Blocking Voltage per element	@T <sub>A</sub> =150 °C	] "R	IR 2						mAmps	

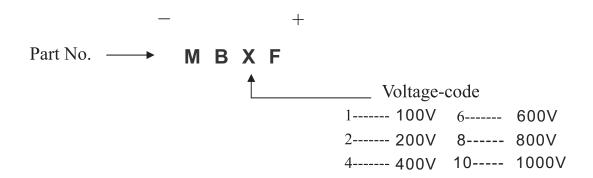
NOTES:1.Typical Thermal Resistance : At 9.5mm lead lengths,PCB mounted.

## RATING AND CHARACTERISTICS CURVES (MB1F THRU MB10F)



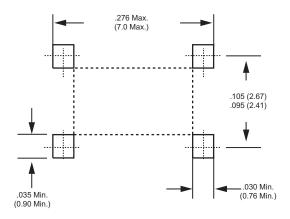


# **Marking Description**





# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# 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)
MB-F	-W	5,000	10,000			330	360*335*360	80,000	25.83

## **DISCLAIMER NOTICE**

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.



# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Rectron:

MB2F MB6F MB1F MB3F MB5F MB7F MB4F