

# GSDMB10F

## Bridge Rectifier

### Product Description

Reverse Voltage 1000V.  
Forward Current 0.8A

### Features

- Glass Passivated Junction
- RoHS Compliant and Halogen Free

### Mechanical Data

- MBS Package
- High Temperature Soldering Guaranteed 260°C, 10s.

### Package and Pin Assignment



### Ordering and Marking Information

Ordering Information			
Part Number	$V_{RRM}$	Marking Code	Quantity/Reel
GSDMB10F	1000	MB10S	5000 PCS
<b>GSDMB10F</b> - <b>Product Code:</b> GSDMB - <b>Voltage Code:</b> 10 stands for Maximum repetitive peak reverse voltage. - <b>Green Level:</b> F for RoHS Compliant and Halogen Free			
Marking Information			
<b>MB10S</b> - <b>Product Code:</b> MB10S			

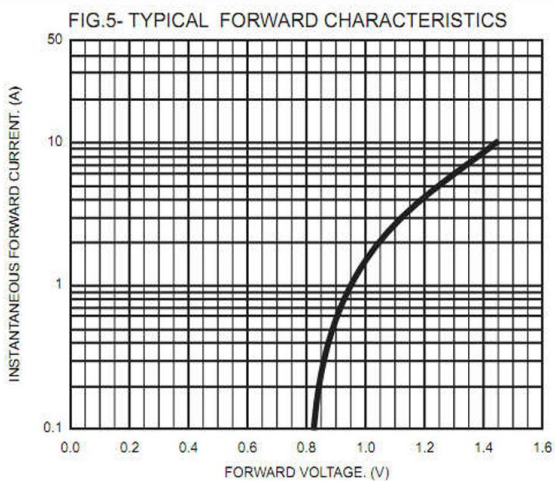
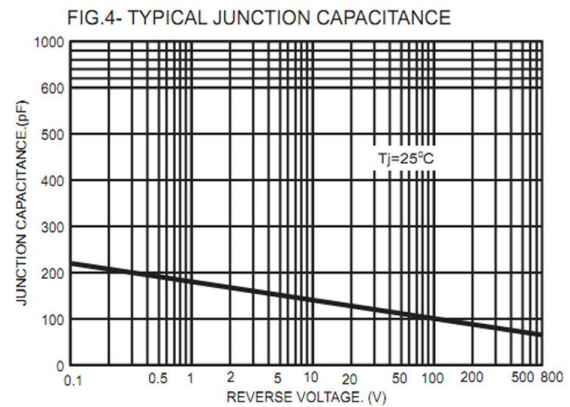
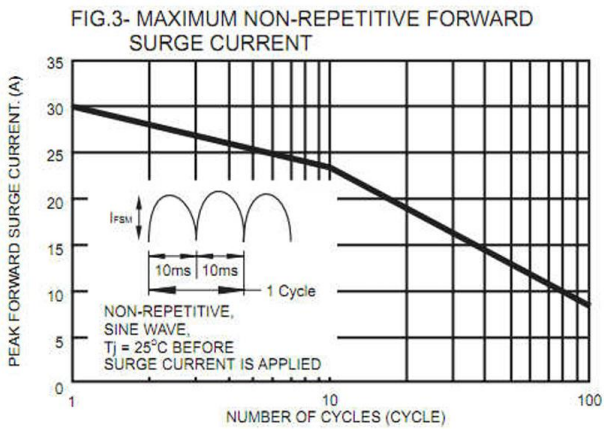
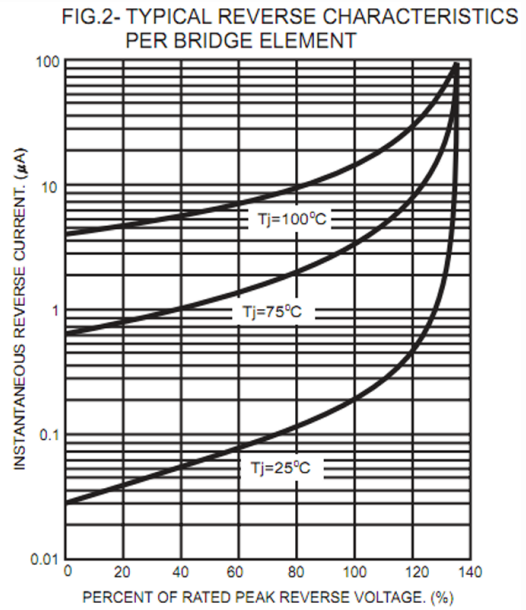
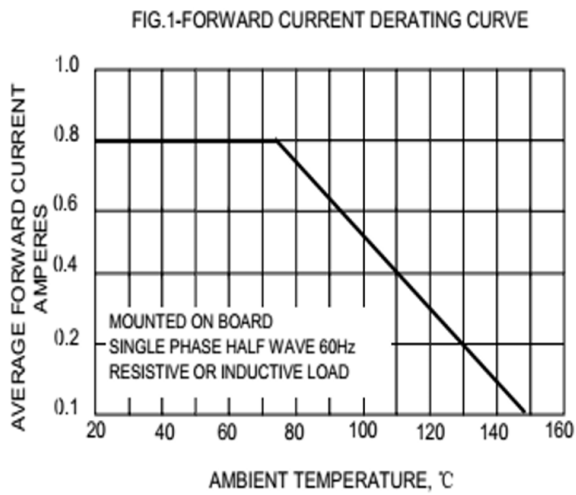
## Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise specified.)

Symbol	Conditions	MB10	Unit	
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage	1000	V	
V <sub>RMS</sub>	Maximum RMS Voltage	700	V	
V <sub>DC</sub>	Maximum DC Blocking Voltage	1000	V	
I <sub>F(AV)</sub>	Maximum Average Forward Rectified Current	0.8	A	
I <sub>FSM</sub>	Peak Forward Surge Current (8.3ms Single Half Sinewave)	30	A	
V <sub>F</sub>	Maximum Forward Voltage at 0.8A	1.1	V	
I <sub>R</sub>	Maximum Reverse Leakage Current at rated V <sub>R</sub>	T <sub>J</sub> = 25°C	5	μA
		T <sub>J</sub> = 125°C	100	μA
R <sub>θJA</sub>	Typical Thermal Resistance <sup>(3)</sup>	62.5	°C/W	
T <sub>J</sub>	Operating Junction Temperature Range	-55 to +150	°C	
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	°C	

### NOTES:

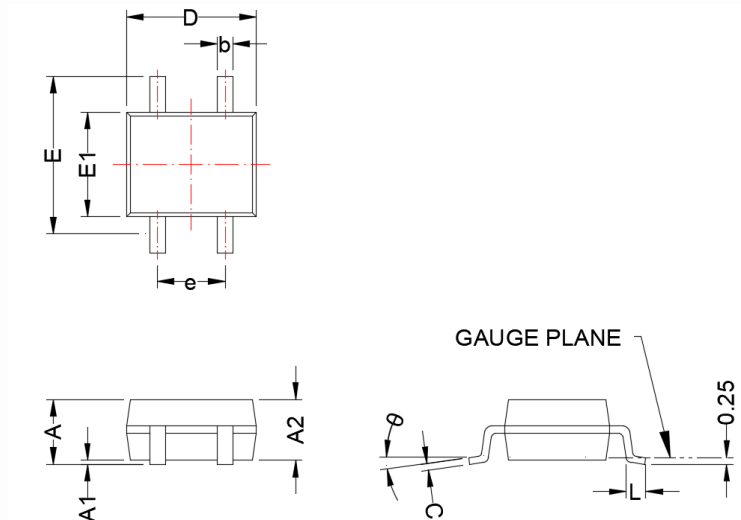
1. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A.
2. Mounted with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas

**Typical Characteristics** ( $T_A = 25^\circ\text{C}$  unless otherwise specified.)

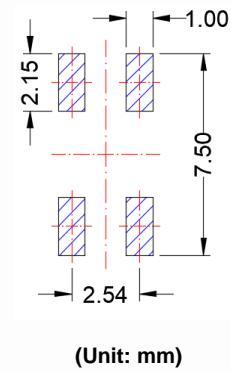


# MBS

## Package Dimension



## Recommended Land Pattern







Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.40	3.00	---	0.118
A1	0.05	0.20	0.002	0.008
A2	1.80	2.80	0.071	0.110
b	0.43	0.80	0.017	0.031
c	0.15	0.41	0.006	0.016
D	4.50	5.00	0.177	0.197
E	6.40	7.00	0.252	0.276
E1	3.65	4.25	0.144	0.167
e	2.54 BSC		0.100 BSC	
θ	0°	8°	0°	8°



**NOTE:**  
Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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