



## Features

- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Polarity: Symbol molded on body
- \* Mounting position: Any
- \* Weight: 0.12 grams

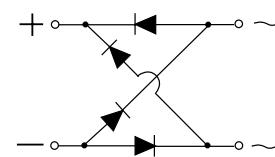


**MBF**

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MB05F-MB10F	MBF	MB*F	5000

\*:From 05-10



**Internal Structure**

## Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Unit
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=40°C				0.8				A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)				30				A
Maximum Forward Voltage Drop per Bridge Element at 0.8A D.C.				1.0				V
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage Ta=125°C				5.0				µA
Typical Thermal Resistance R <sub>JA</sub>				75				°C/W
Operating Temperature Range, T <sub>J</sub>				-55 — +150				°C
Storage Temperature Range, T <sub>STG</sub>				-55 — +150				°C



## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

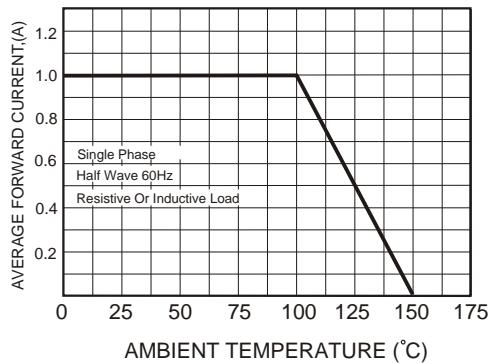


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

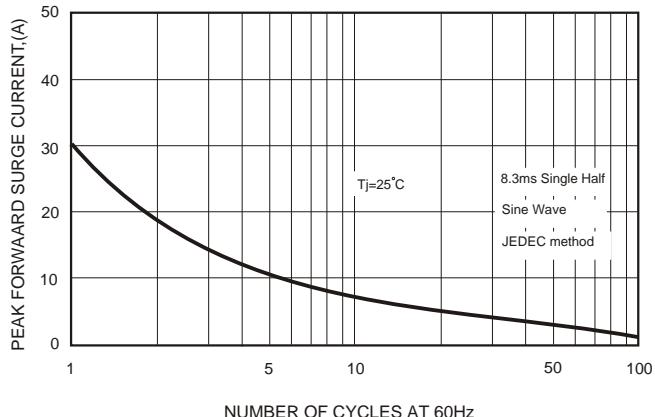


FIG.3-TYPICAL FORWARD CHARACTERISTICS

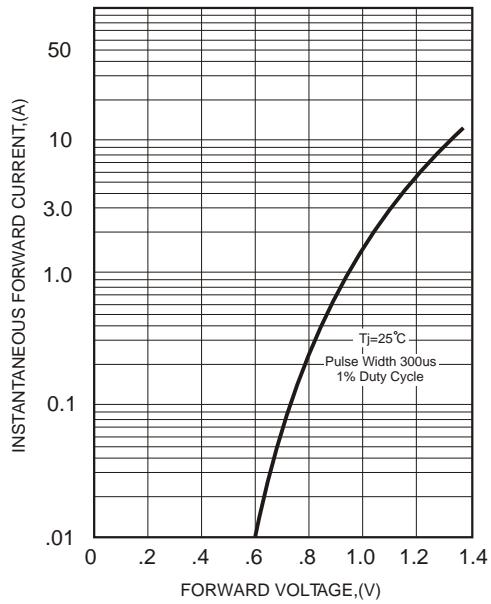
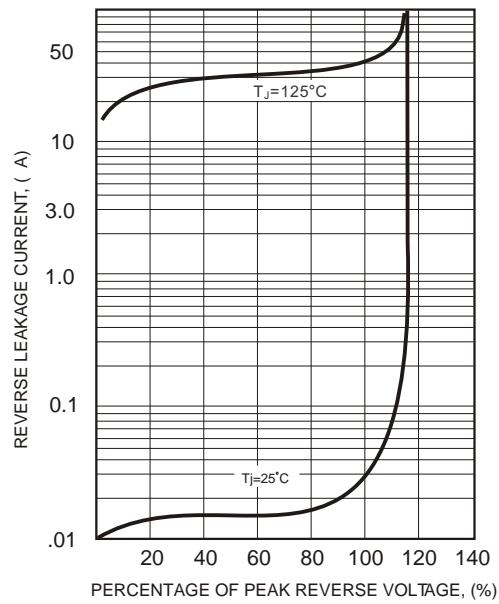
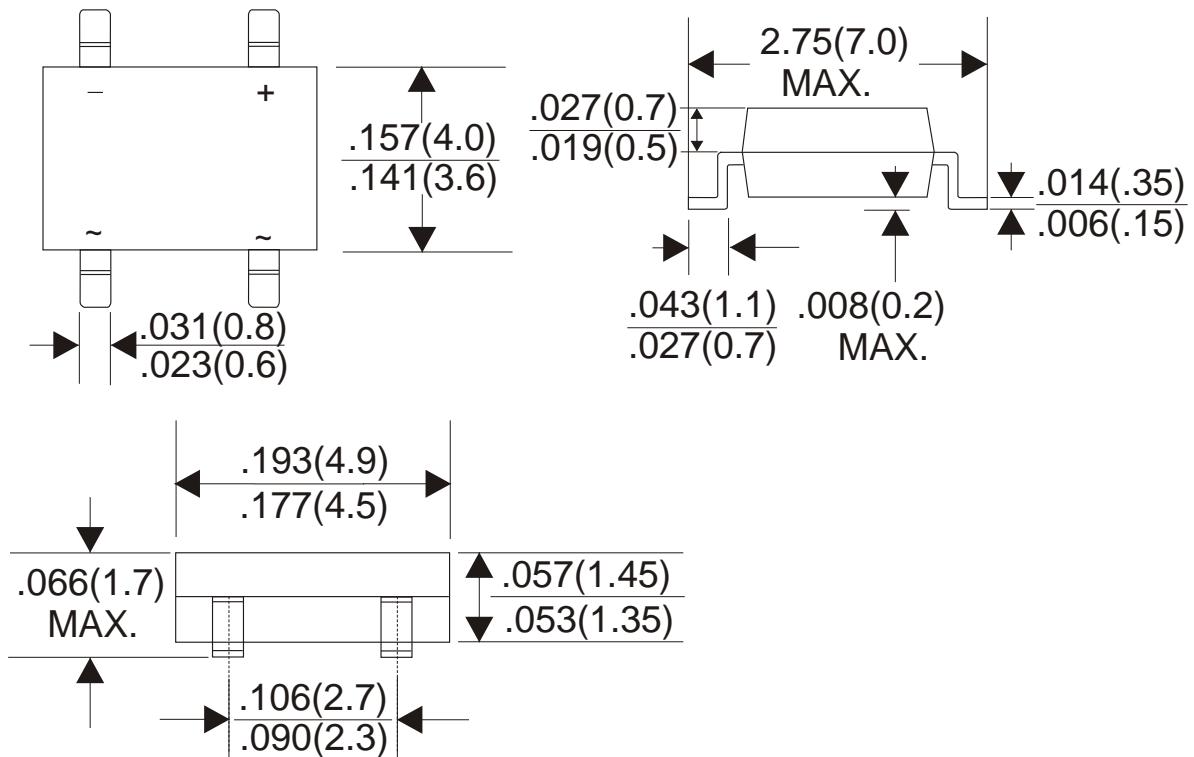


FIG.4-TYPICAL REVERSE CHARACTERISTICS





## MBF



Dimensions in inches and (millimeters)



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