



Features

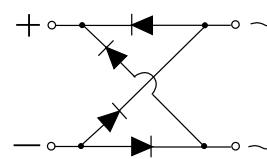
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: Symbol molded on body
- * Mounting position: Any
- * Weight: 0.12 grams



MBS

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HMB6STP	MBS	MB6S	3000



Internal Structure

Maxmim 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	HMB6STP	Unit
Maximum Recurrent Peak Reverse Voltage	600	V
Maximum RMS Voltage	420	V
Maximum DC Blocking Voltage	600	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)	3.0	A
Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C.	1.0	V
Maximum DC Reverse Current Ta=25°C	5.0	μA
at Rated DC Blocking Voltage Ta=125°C	500	μA
Typical Thermal Resistance R JA	75	°C/W
Operating Temperature Range, Tj	-55 — +150	°C
Storage Temperature Range, Tstg	-55 — +150	°C



Rating And Characteristic Curves (MB05S Thru MB10S)

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

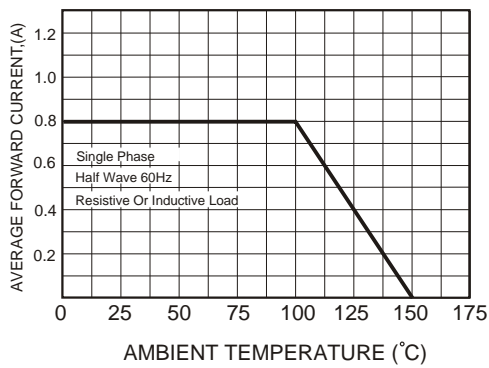


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

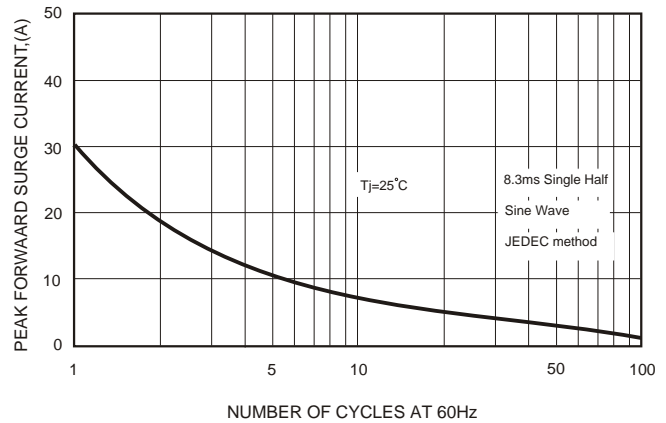


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

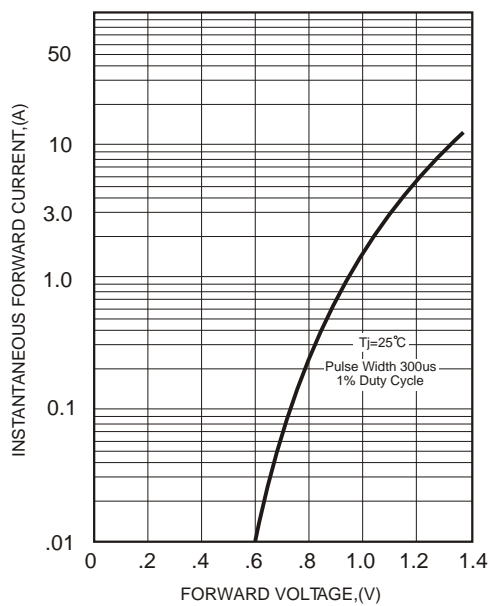
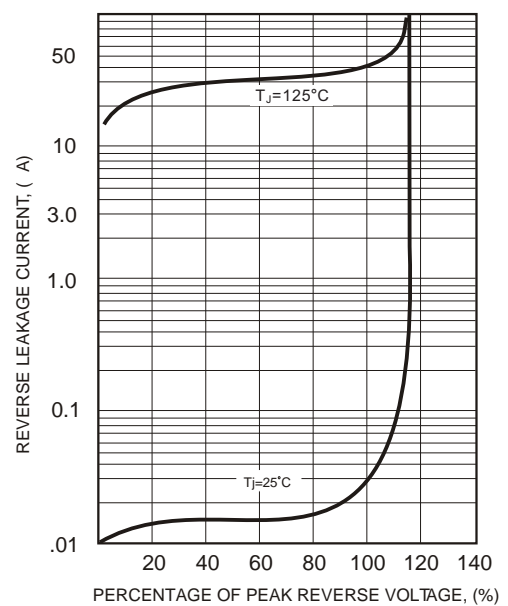
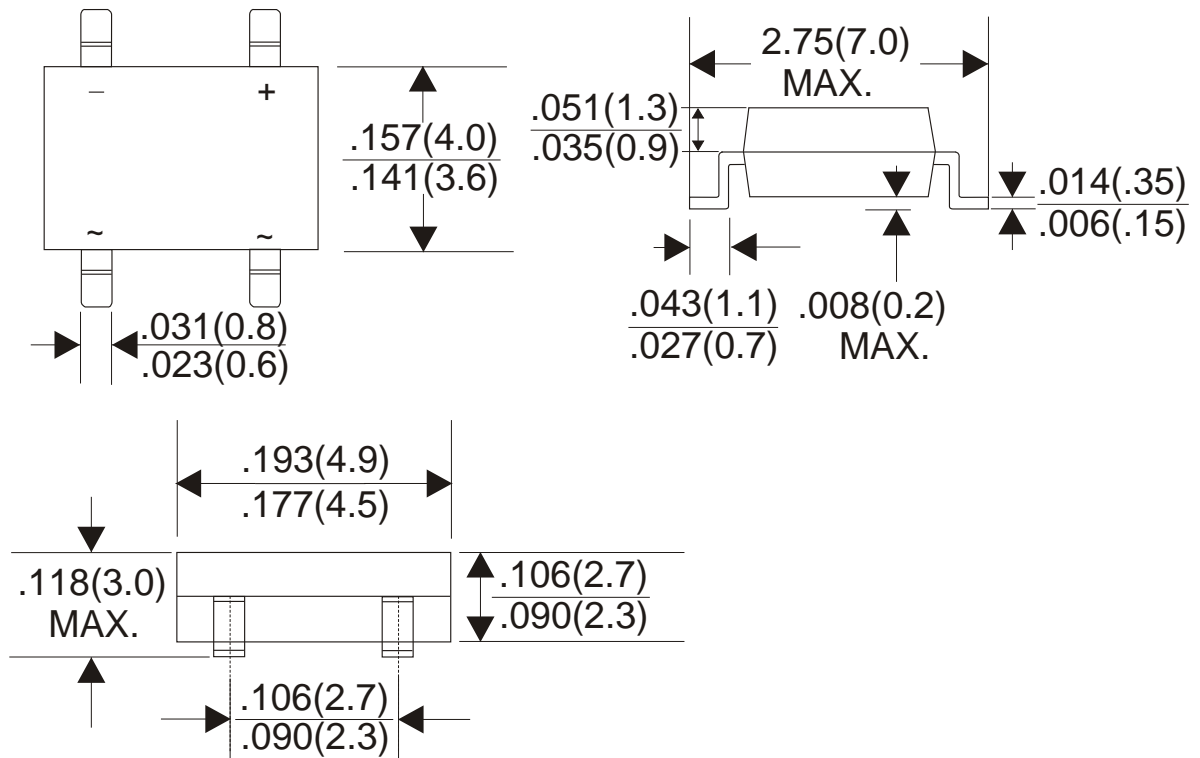


FIG.4-TYPICAL REVERSE
CHARACTERISTICS





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Dimensions in inches and (millimeters)



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