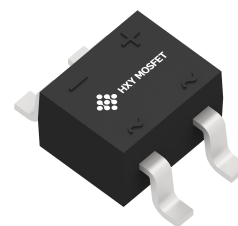




## Features

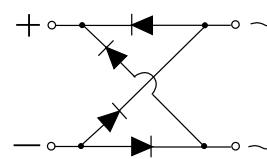
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Polarity: Symbol molded on body
- \* Mounting position: Any
- \* Weight: 0.12 grams



MBS  
(TO-269AA)

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HMB6SE380	MBS(TO-269AA)	MB6S	3000



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	HMB6SE380	Unit
Maximum Recurrent Peak Reverse Voltage	800	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 <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



## Rating And Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT  
DERATING CURVE

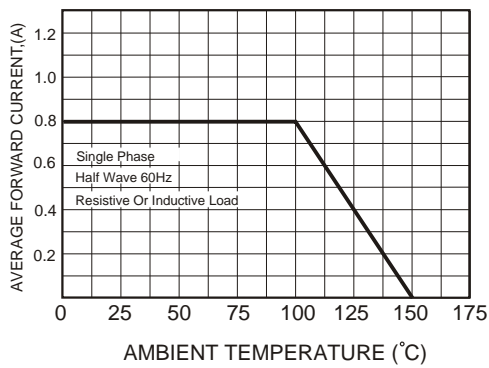


FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

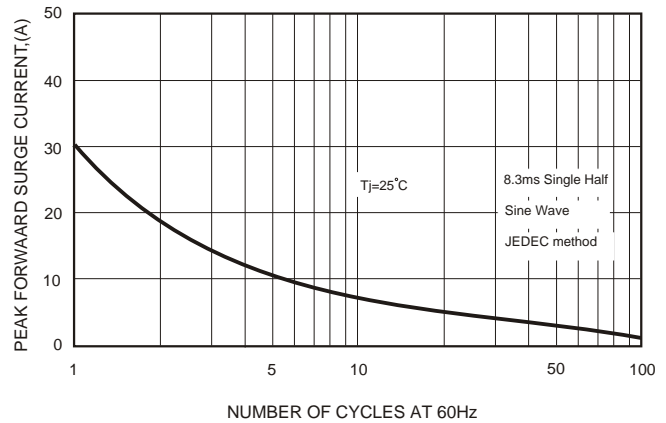


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

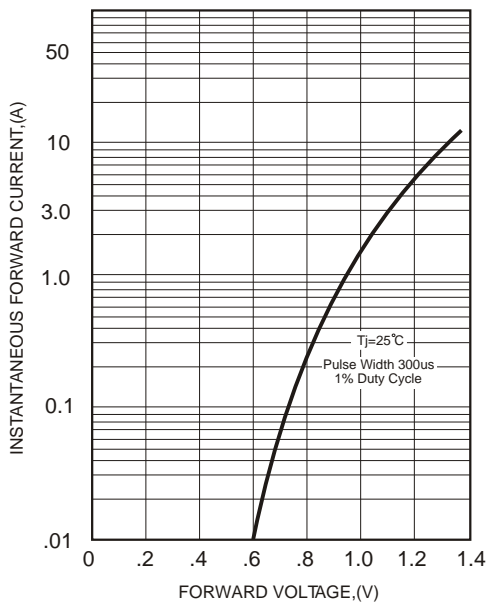
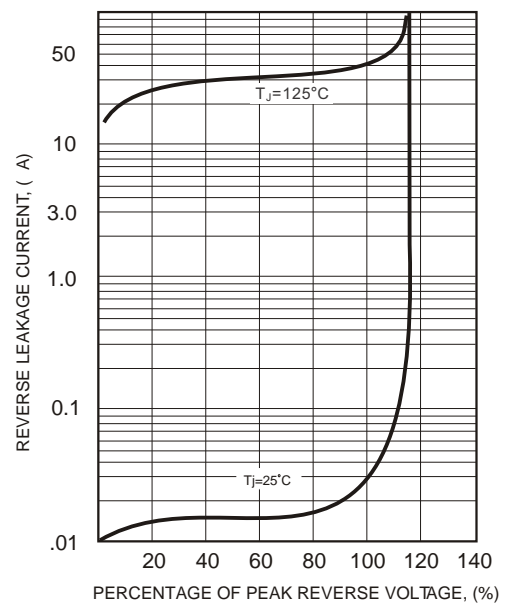
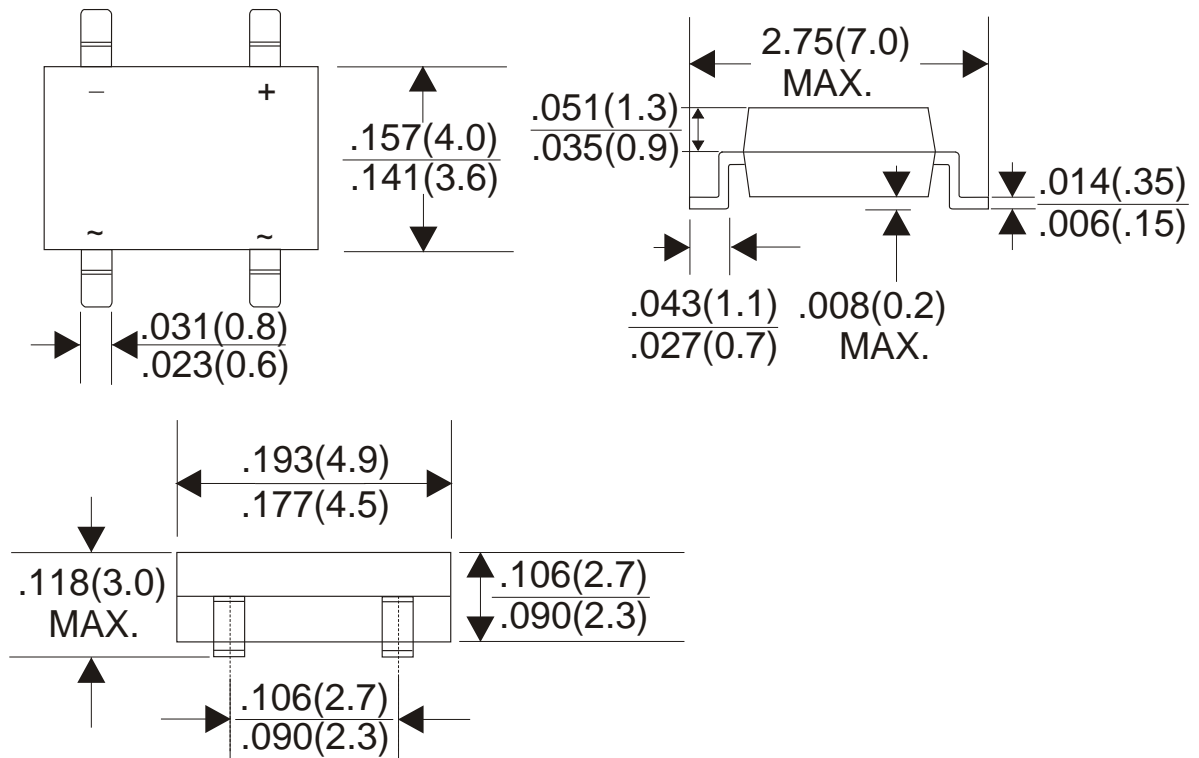


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS





## MBS(TO-269AA)



Dimensions in inches and (millimeters)



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