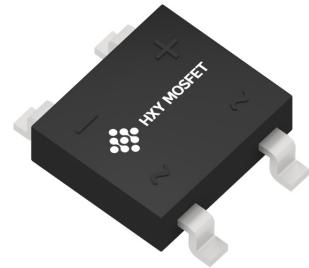




## Features

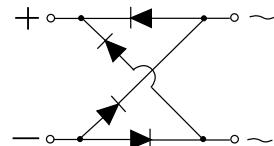
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Polarity: Symbol molded on body
- \* Mounting position: Any
- \* Weight: 0.12 grams



ABS

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HRABS20M13	ABS	R20BD	5000



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	HRABS20M13	Units
Maximum Recurrent Peak Reverse Voltage	1000	V
Maximum RMS Voltage	700	V
Maximum DC Blocking Voltage	1000	V
Maximum Average Forward Rectified Current at Ta=40°C(Note 1)	2.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	6.0	A
Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0 500	µA µA
Typical Thermal Resistance R <sub>JA</sub> (Note 2)	75	°C/W
Operating Temperature Range, T <sub>JK</sub>	-55 — +150	°C
Storage Temperature Range, T <sub>STG</sub>	-55 — +150	°C



## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

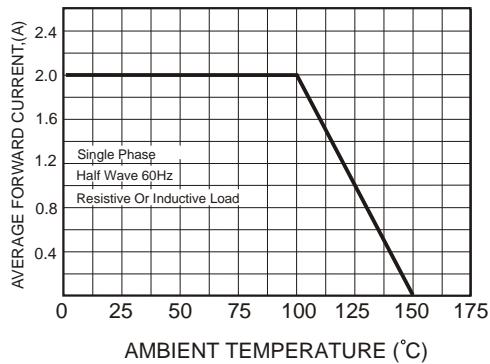


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

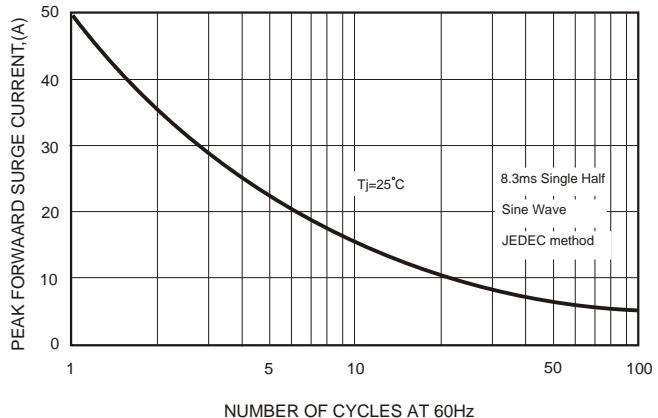


FIG.3-TYPICAL FORWARD CHARACTERISTICS

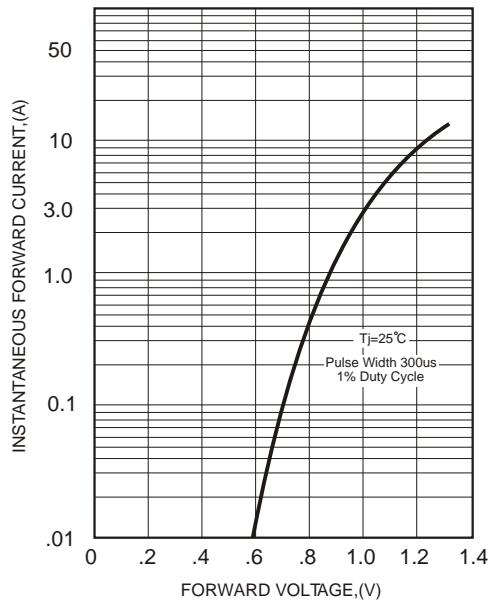
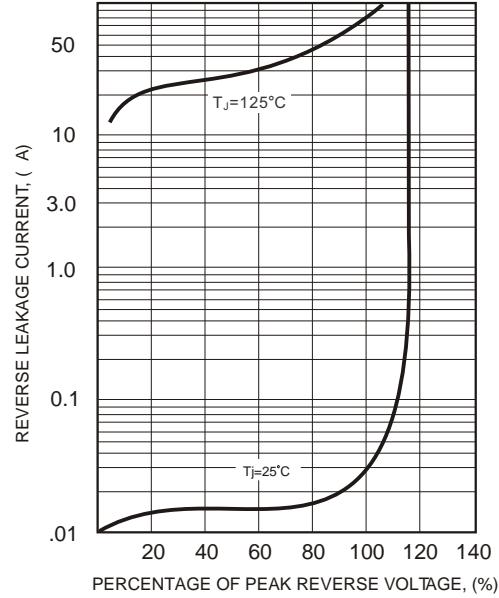
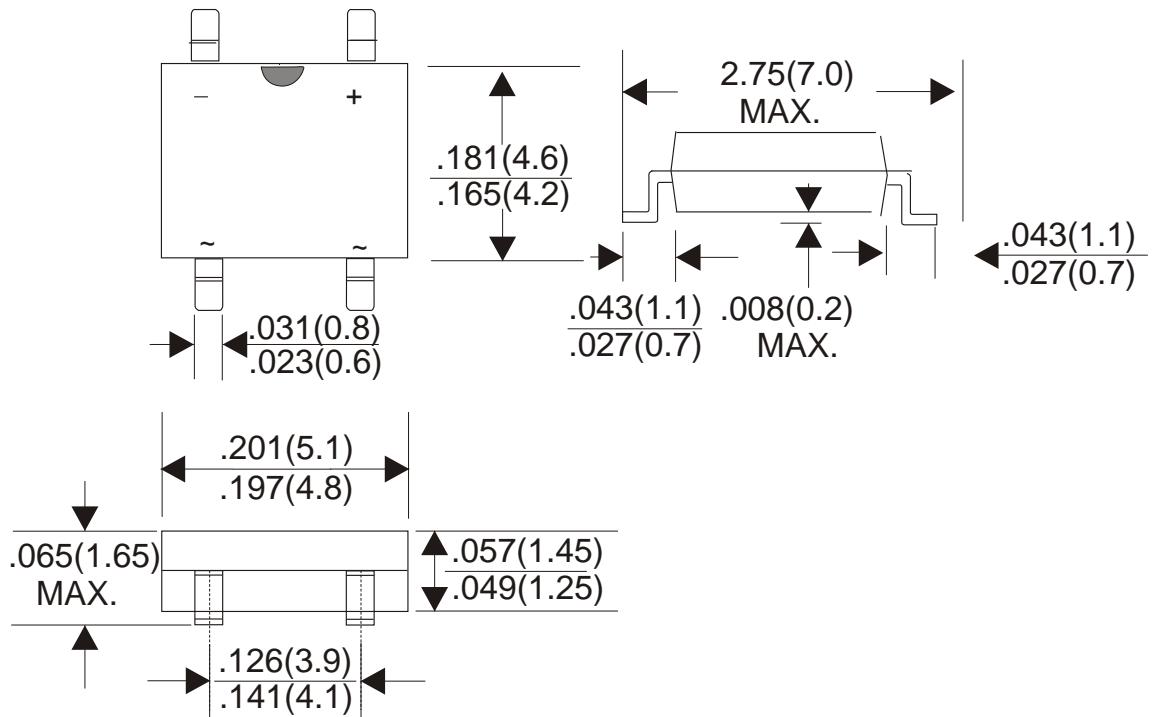


FIG.4-TYPICAL REVERSE CHARACTERISTICS





## ABS Package Outline Dimensions



Dimensions in inches and (millimeters)



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