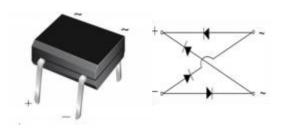




Reverse Voltage 200~1000V Ountput Current 0.5A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junctions
- Saves space on printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds
- Add suffix "E" for Halogen Free



MBM

Typical Applications

• General purpose use in ac-to-dc bridge full wave rectification for TV, Monitor, SMPS, Adapter, Printer, Audio equipment, and Home Applications application

Mechanical Data

- Case: Molded plastic body over passivated junctions
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Mounting Position: Any

Maximum Ratings (TA = 25 °C unless otherwise noted)								
Parameter		Symbol	MB2M	MB4M	мв6м	MB8M	MB10M	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	200	400	600	800	1000	٧
Maximum RMS voltage		V _{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	200	400	600	800	1000	٧
Average forward rectified output current ⁽¹⁾	On Glass-epoxy P.C.B		0.5 ⁽¹⁾					- А
	On aluminum substrate	I _{F(AV)}	0.8(2)					
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	35					Α
Rating for fusing (t≤8.3ms)		l²t	5					A ² s
Operating junction and storage temperature range		T _J , T _{STG}	-55 to 150					°C
Typical junction capacitance per at 4.0V, 1.0MHz		Cj	13					pF



MB2M thru MB10M

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Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	MB2M	MB4M	MB6M	MB8M	MB10M	Unit
Maximum instantaneous forward voltage	I _F =0.4A	V _F	1.0				Volts	
Maximum DC reverse curren at rated DC blocking voltage	T _A =25°C		5.0					- μΑ
	T _A =125°C	· I _R	100					
Typical thermal resistance ⁽¹⁾		Rеja	85 ⁽¹⁾					°C/W
		R _{θJA}	70 ⁽²⁾					
		R _{θJL}			20(1)			

Note:1. On glass epoxy P.C.B. mounted on 0.05×0.05"(1.3×1.3mm) pads

^{2.} On aluminum substrate P.C.B.whthan area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

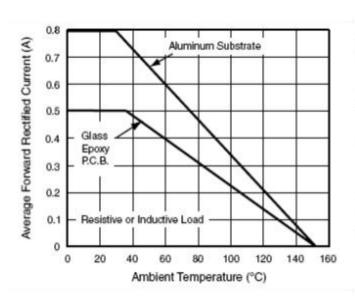


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

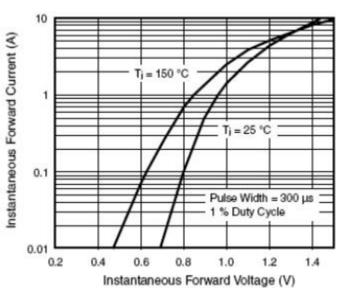


FIG.3 TYPICAL RESERVE LEAKAGE CHARACTERISTICS PER DIODE

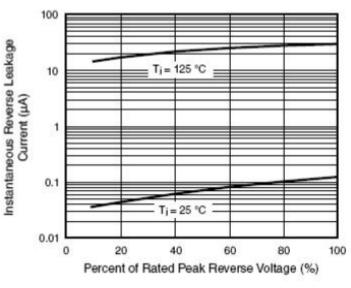
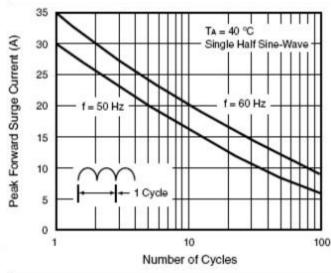


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

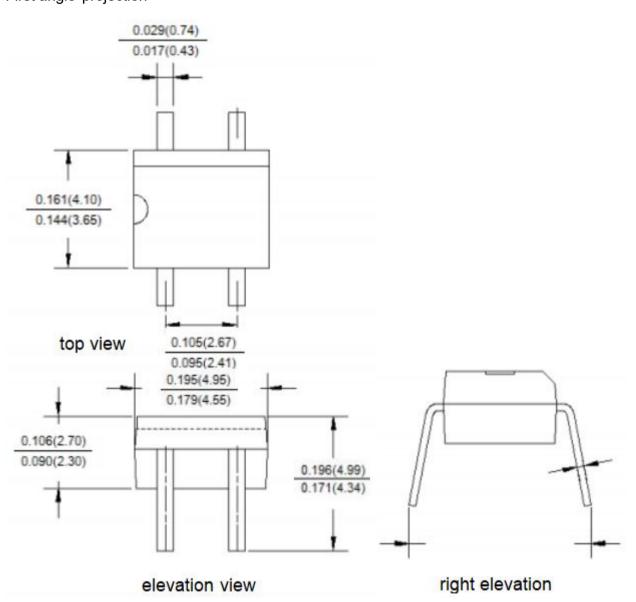




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Package Outline Dimensions

Unit:inches(mm)
First angle projection



Revision History

Document Version	Date of release	Discroption of changes		
Rev.A	2021/3/1	Released Datasheet		
Rev.B	2023/12/8	Modify document format		



MB2M thru MB10M

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