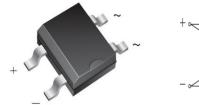
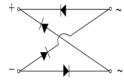


Miniautre Glass Passivated Single-Phase Surface Mount Bridge Rectifier Reverse Voltage 200~1000V Ountput Current 0.5A

Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junctions
- ◆ High surge overload rating:35A peak
- Saves space on printed circuit boards
- ◆ High temperature soldering guaranteed:260°C/10 seconds
- ◆ Add suffix "E" for Halogen Free





MB

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	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	200	400	600	800	1000	V
Average forward rectified output current (1)	On Glass-epoxy P.C.B	I _{F(AV)}	0.5 ⁽¹⁾					Α
	On aluminum substrate		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)		l ² t	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	

Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Maximum instantaneous forward voltage	I _F =0.4A	V _F			1.0			Volts
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C		5.0					μΑ
	T _A =125°C	- I _R	100					
Typical thermal resistance ⁽¹⁾		$R_{\theta JA}$	85 ⁽¹⁾					
		$R_{\theta JA}$	70 ⁽²⁾					°C/W
		$R_{\theta JL}$			20 ⁽¹⁾			

Note:1. On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

2. On aluminum substrate P.C.B.whth an area of 0.8x0.8" (20x20mm) mounted on 0.05x0.05"(1.3x1.3mm) solder pad

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

8.0 Average Forward Rectified Current (A) Aluminum Substrate 0.7 0.6 0.5 Glass 0.4 Epoxy P.C.B. 0.3 0.2 0.1 Resistive or Inductive Load 0 80 0 20 60 100 120 140 160 Ambient Temperature (°C)

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

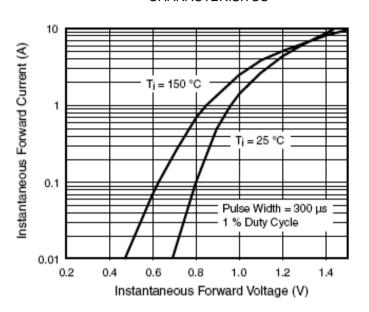


FIG.3 TYPICAL RESERVE LEAKAGE CHARACTERISTICS PER DIODE

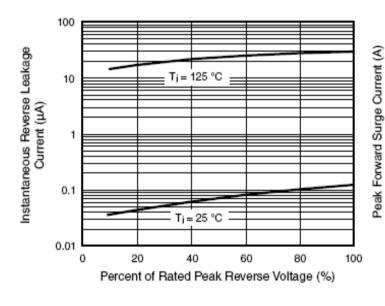
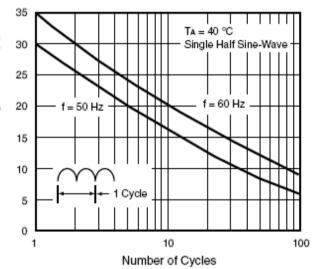


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT



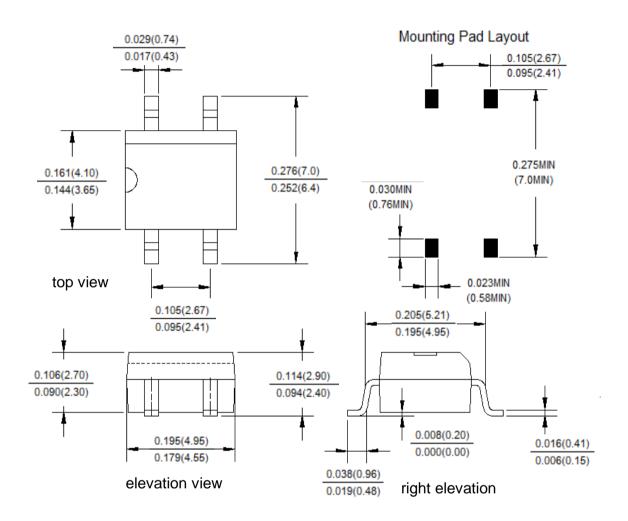


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Package Outline Dimensions

Unit:inches(mm)

First angle projection



Version	Revision content	Date	
А	Initial version release	Mar-21	

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