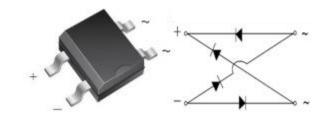
MB12S thru MB110S GOOD-ARK Electronics

Reverse Voltage 20~100V Output Current 1A

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



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: MBS 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	MB12S	MB14S	MB16S	MB18S	MB110S	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	٧
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	٧
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	V
Maximum Average forward output current	I _{F(AV)}	1.0			Α		
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30		Α			
Rating for fusing (t≤8.3ms)	l²t	3.75		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		



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Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	MB12S	MB14S	MB16S	MB18S	MB110S	Unit
Maximum instantaneous forward voltage	I _F =1A	V _F	0.5		0.7	0.	0.85	
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C		0.5					mA
	T _A =125°C	l _R	20					
Typical thermal resistance ⁽¹⁾		R _{θJA}	88					°C/W
		R _{0JL}	28					

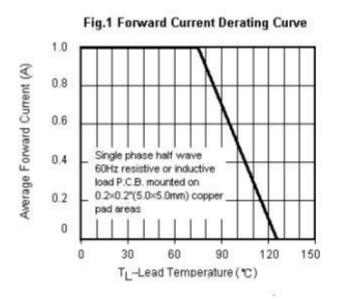
Note:1. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2×0.2 " (5.0×5.0 mm) copper pad areas.

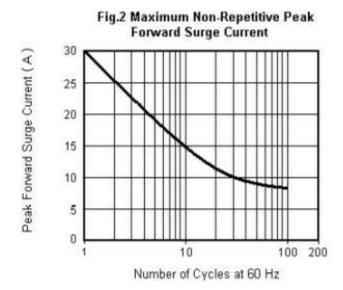
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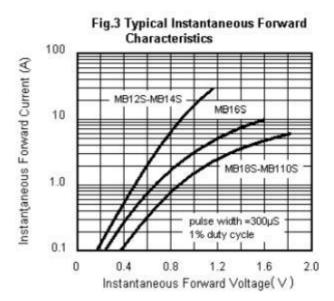


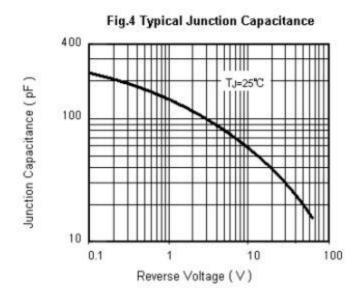
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)









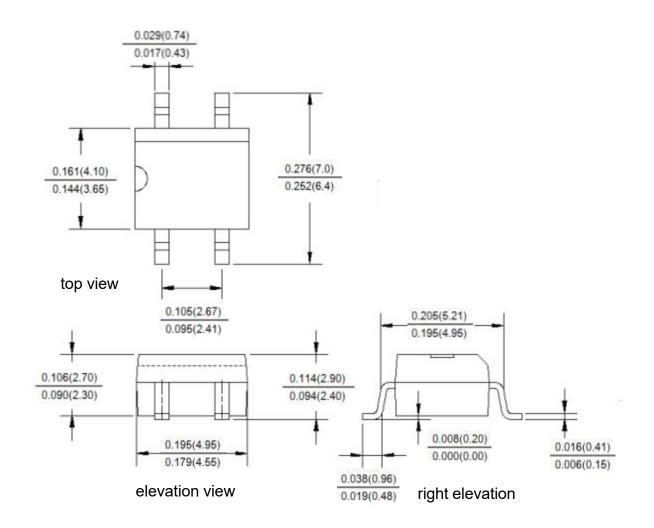
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Package Outline Dimensions

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

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