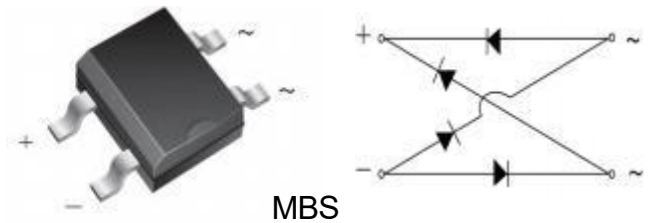


## Reverse Voltage 20~100V Output Current 2A

### 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	MB22S	MB24S	MB26S	MB28S	MB210S	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	60	80	100	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	56	70	V
Maximum DC blocking voltage	$V_{DC}$	20	40	60	80	100	V
Maximum Average forward output current	$I_{F(AV)}$	2.0					A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50					A
Rating for fusing ( $t \leq 8.3ms$ )	$I^2t$	10					A <sup>2</sup> s
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to 150					°C
Typical junction capacitance per at 4.0V, 1.0MHz	$C_j$	25					pF

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	MB22S	MB24S	MB26S	MB28S	MB210S	Unit	
Maximum instantaneous forward voltage	I <sub>F</sub> =2A	V <sub>F</sub>	0.55		0.7		0.85	Volts	
Maximum DC reverse current at rated DC blocking voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	0.5						mA
	T <sub>A</sub> =125°C		20						
Typical thermal resistance <sup>(1)</sup>		R <sub>θJA</sub>	85						°C/W
		R <sub>θJL</sub>	25						

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

## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

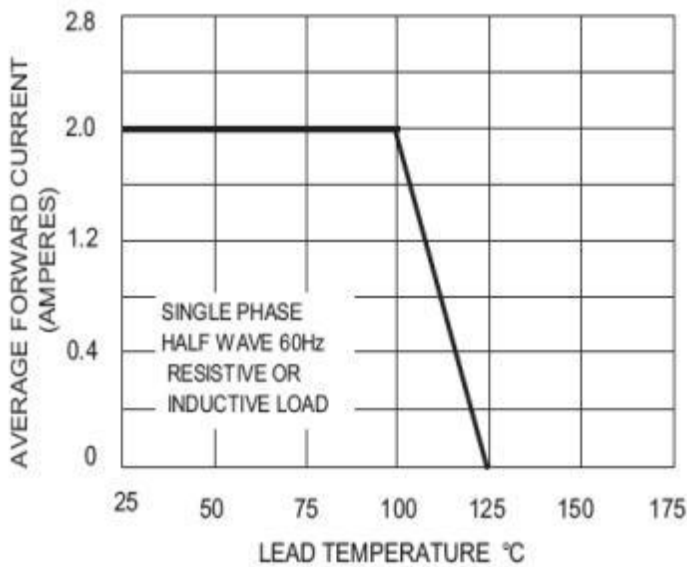


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

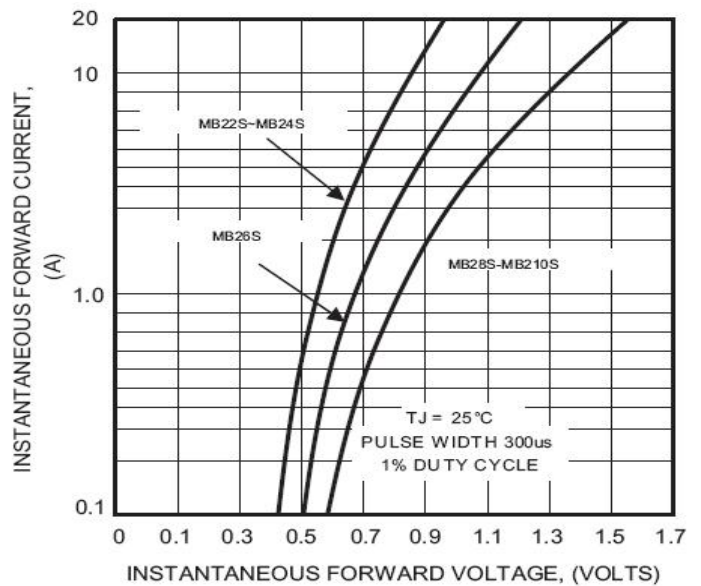


FIG.3 TYPICAL REVERSER CHARACTERISTICS

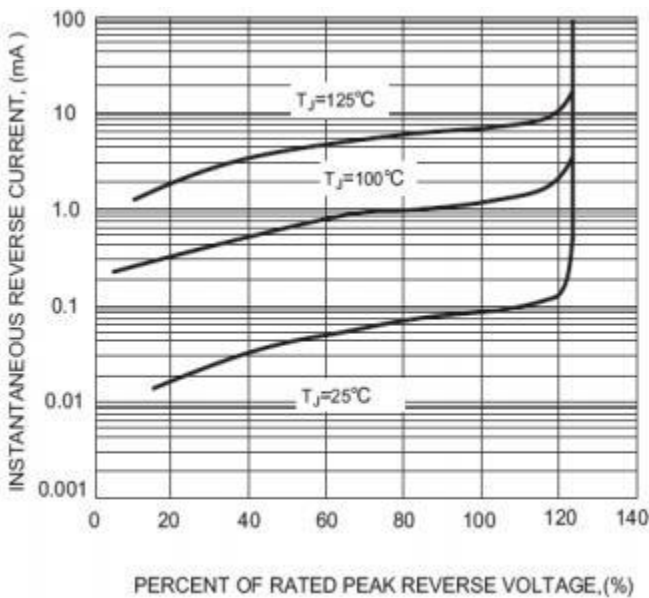
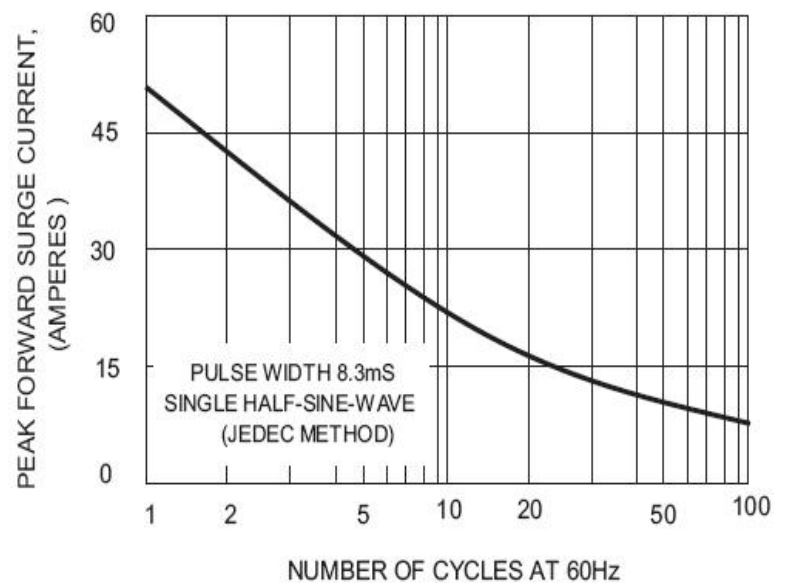


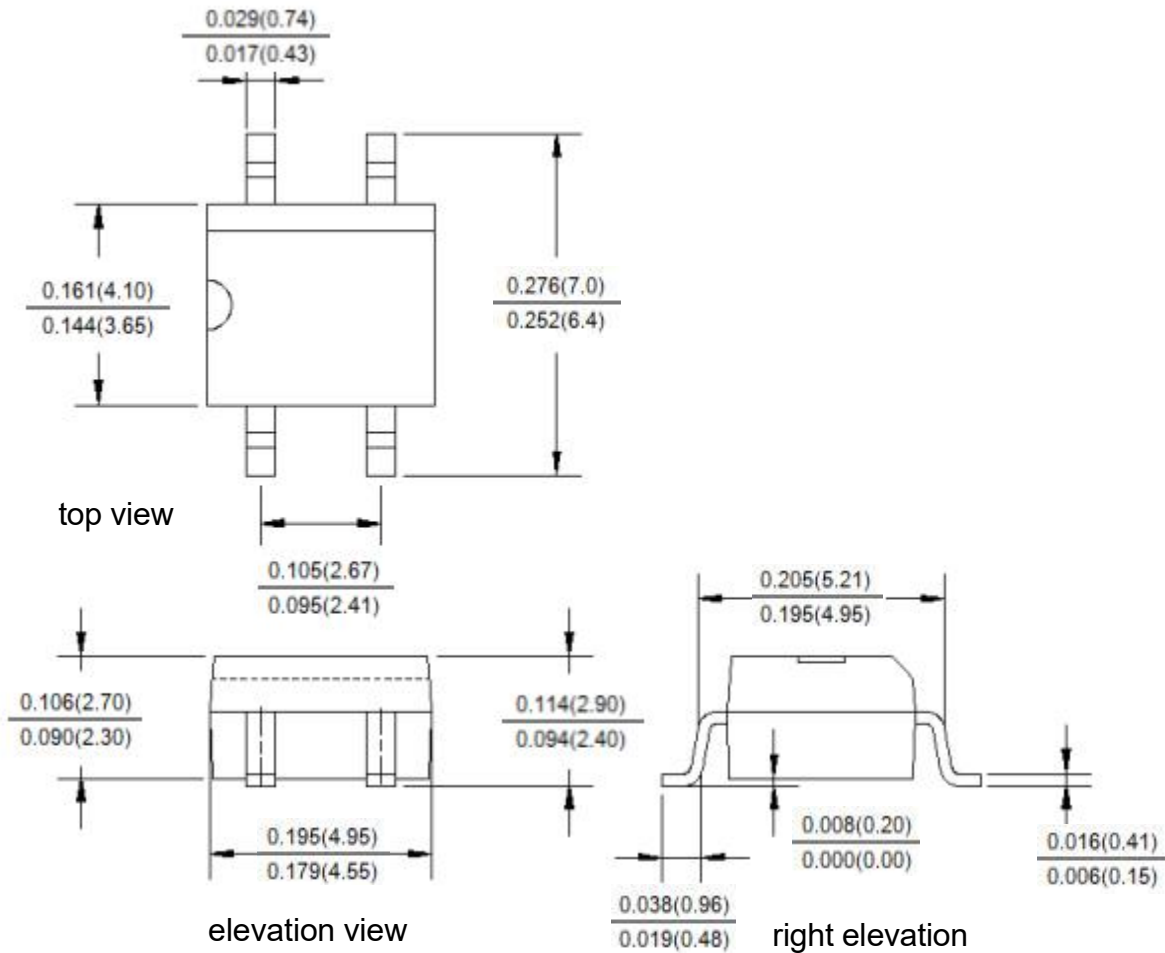
FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



## Package Outline Dimensions

Unit:inches(mm)

First angle projection



## Revision History

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

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