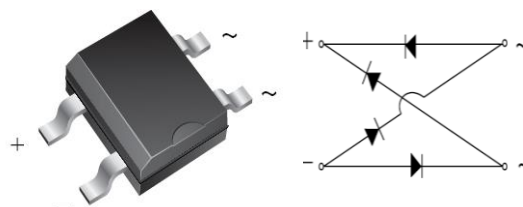


## Features

- ◆ 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



MBS

## 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	MF2S	MF4S	MF6S	MF8S	MF10S	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 <sup>(1)</sup>	$I_{F(AV)}$	1.0					A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	40					A
Rating for fusing ( $t \leq 8.3ms$ )	$I^2t$	7					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	$C_j$	13					pF

### Electrical Characteristics (TA = 25 °C unless otherwise noted)

Parameter	Test Conditions	Symbol	MF2S	MF4S	MF6S	MF8S	MF10S	Unit	
Maximum instantaneous forward voltage	I <sub>F</sub> =1A	V <sub>F</sub>	1.1						Volts
Maximum DC reverse current at rated DC blocking voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	5.0						μA
	T <sub>A</sub> =125°C		100						
Typical thermal resistance <sup>(1)</sup>		R <sub>θJA</sub>	85 <sup>(1)</sup>						°C/W
		R <sub>θJA</sub>	70 <sup>(2)</sup>						
		R <sub>θJL</sub>	20 <sup>(1)</sup>						

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



## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

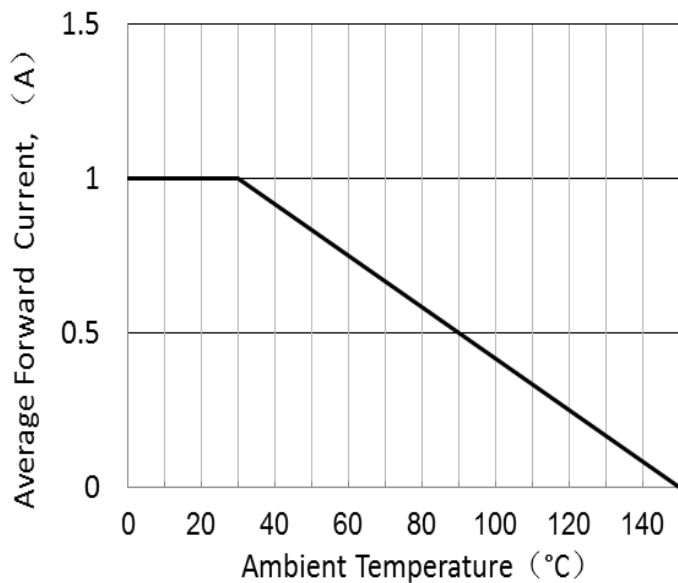


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

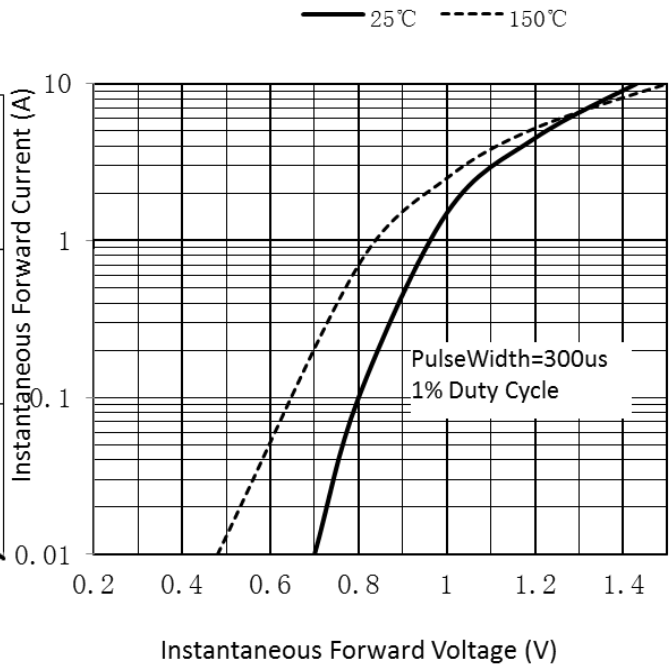


FIG.3 TYPICAL RESERVE LEAKAGE CHARACTERISTICS PER DIODE

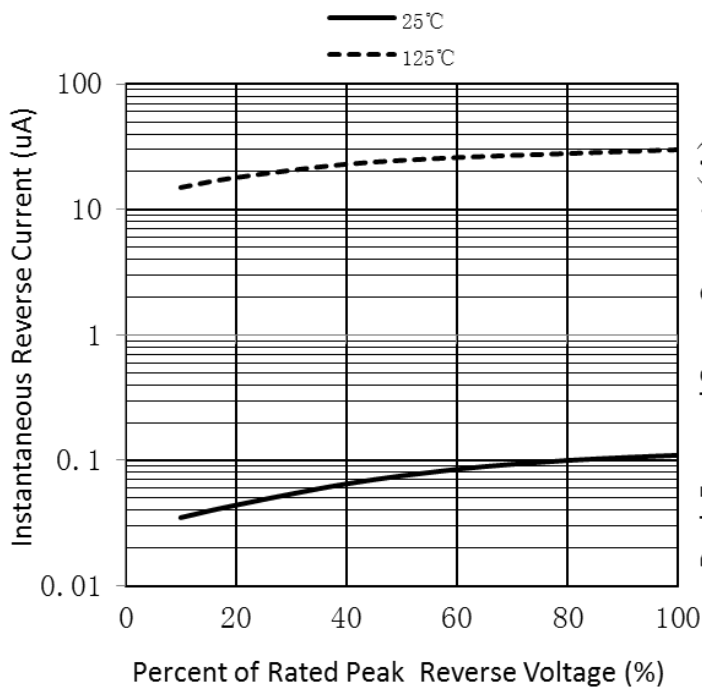
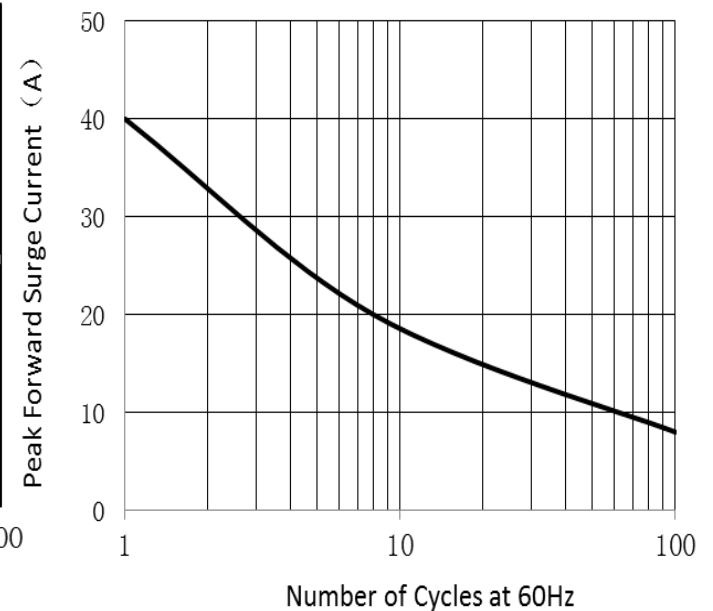


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SUGER CURRENT





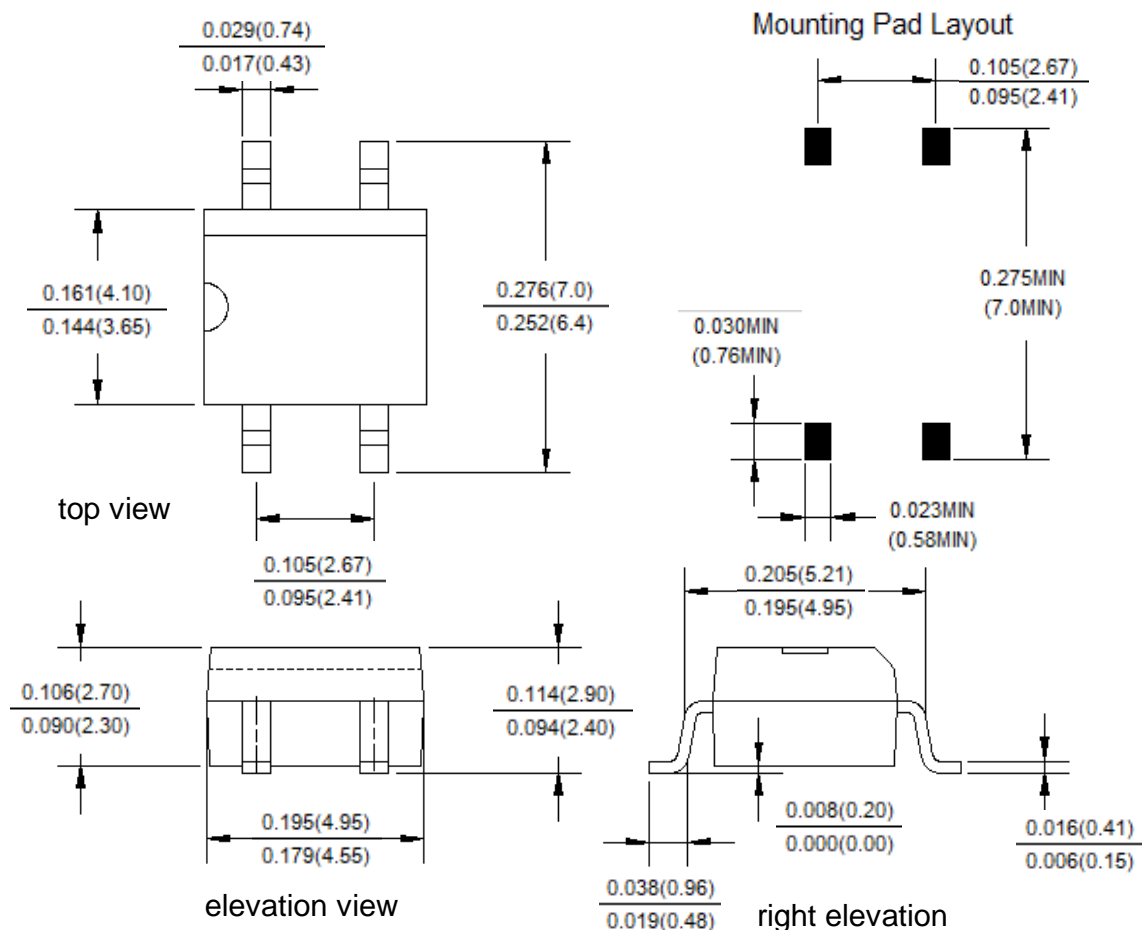
# MF2S thru MF10S

Miniautre Glass Passivated Single-Phase Surface Mount Rectifier  
Reverse Voltage 200~1000V Ountput Current 1A

## Package Outline Dimensions

Unit:inches(mm)

First angle projection



Version	Revision content	Date
A	Initial version release	Mar-21



# **MF2S thru MF10S**

Miniautre Glass Passivated Single-Phase Surface Mount Bridge Rectifier  
Reverse Voltage 200~1000V    Ountput Current 1A

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