

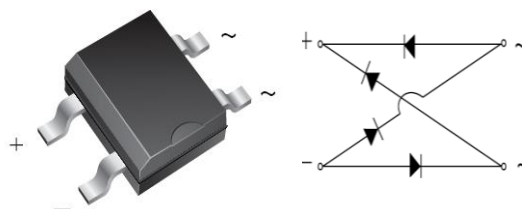


MF2S thru MF10S

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



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 ⁽¹⁾	$I_{F(AV)}$	1.0					A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40					A
Rating for fusing (t≤8.3ms)	I^2t	7					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	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	IF=1A	VF	1.1					Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	5.0					µA
	TA=125°C		100					
Typical thermal resistance ⁽¹⁾		RθJA	85 ⁽¹⁾					°C/W
		RθJA	70 ⁽²⁾					
		RθJL	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.whth an area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

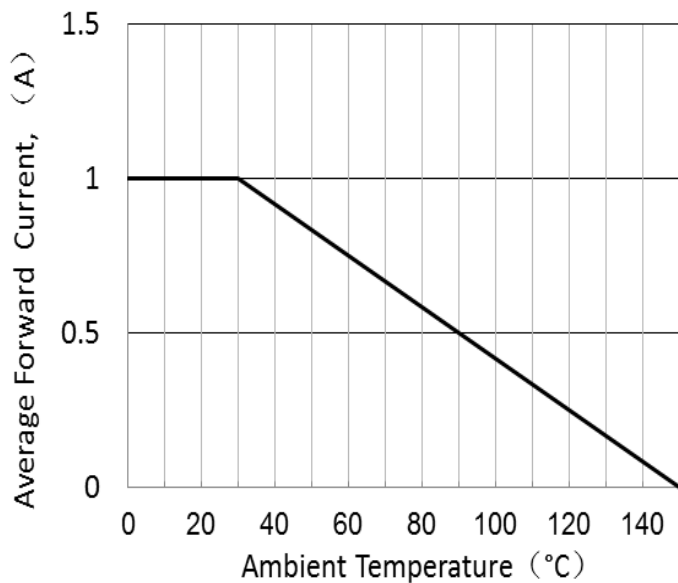


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

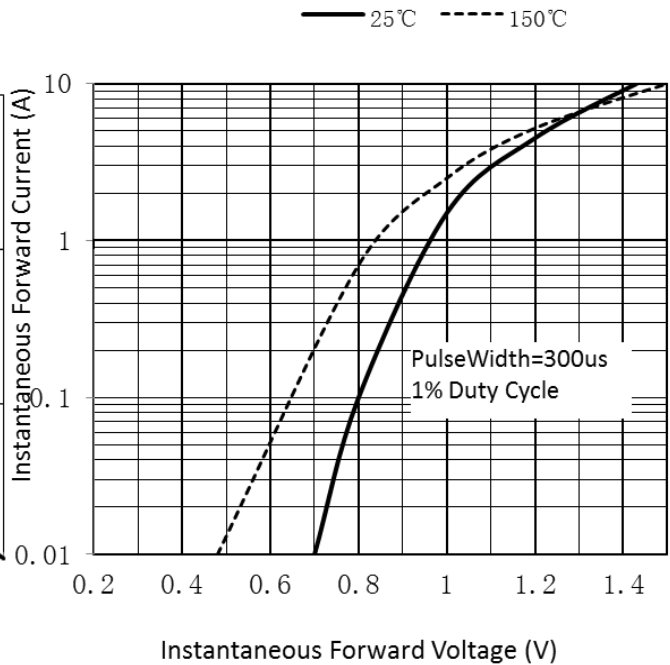


FIG.3 TYPICAL RESERVE LEAKAGE CHARACTERISTICS PER DIODE

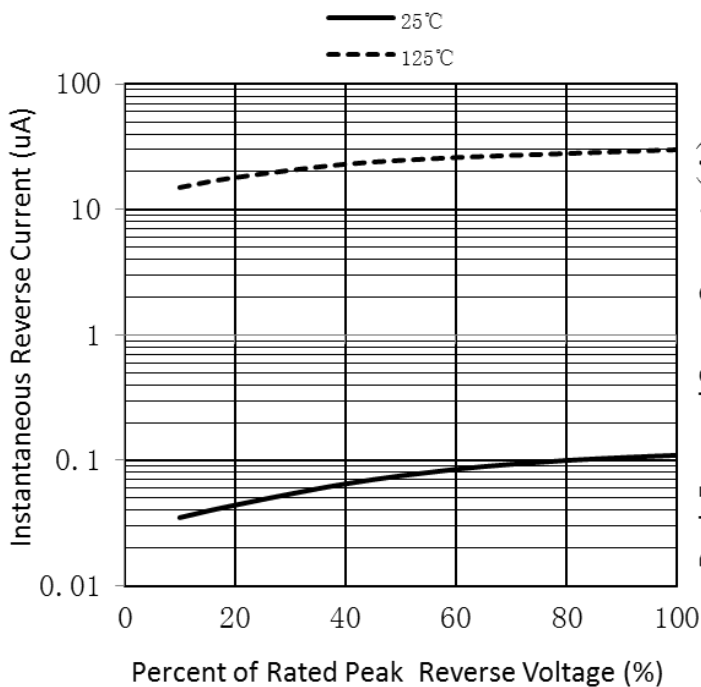
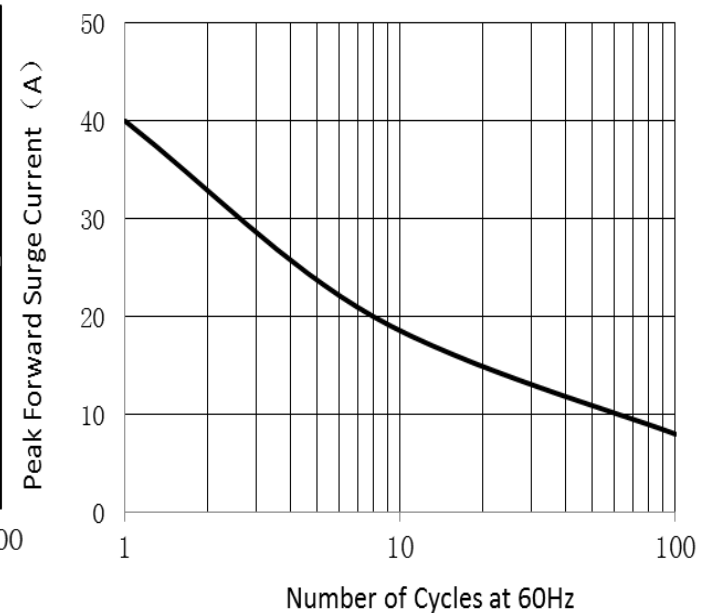


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SUGER CURRENT





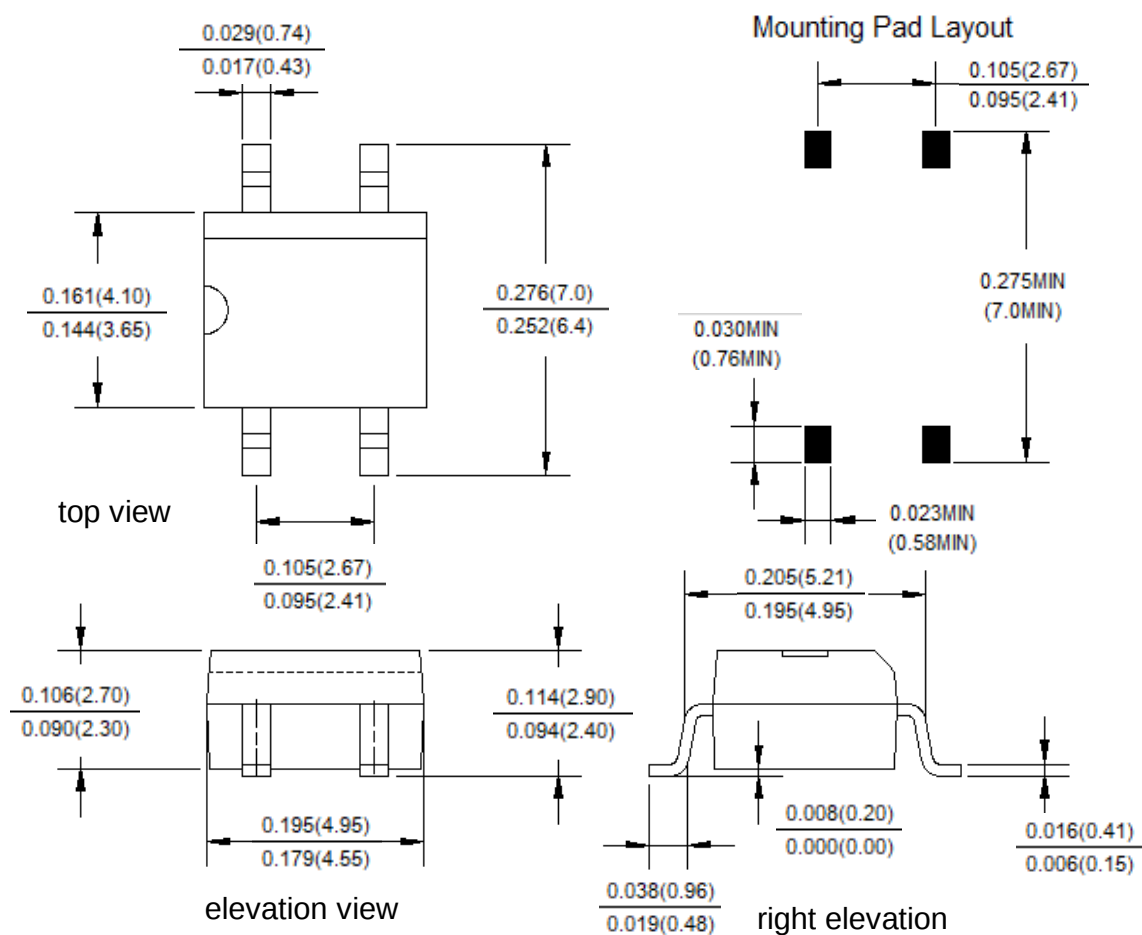
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Package Outline Dimensions

Unit:inches(mm)

First angle projection



Version	Revision content	Date
A	Initial version release	Mar-21



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