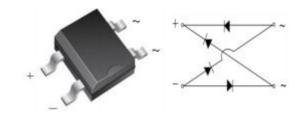
MF2S thru MF10S

GOOD-ARK Electronics

Reverse Voltage 200~1000V 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



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

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			Α		
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40			Α		
ating for fusing (t≤8.3ms)			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	



MF2S thru MF10S

GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	MF2S	MF4S	MF6S	MF8S	MF10S	Unit
Maximum instantaneous forward voltage	l ₌ =1A	V _F			1.1			Volts
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	5.0						
	T _A =125°C	l _R	100					
		R _{θJA}			85 ⁽¹⁾			
Typical thermal resistance ⁽¹⁾		R _{θJA}	70 ⁽²⁾					°C/W
		R _{eJL}			20 ⁽¹⁾			3,,,

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.whthan area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad

GOOD-ARK Electronics

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

25°C ----150°C

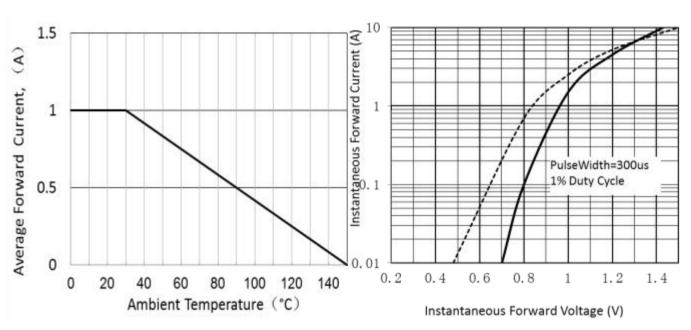
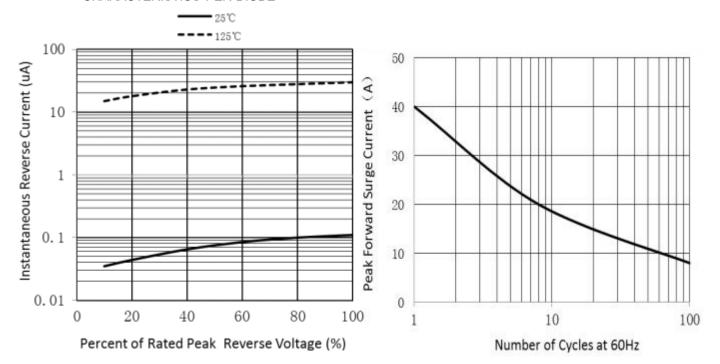


FIG.3 TYPICAL RESERVE LEAKAGE CHARACTERISTICS PER DIODE

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

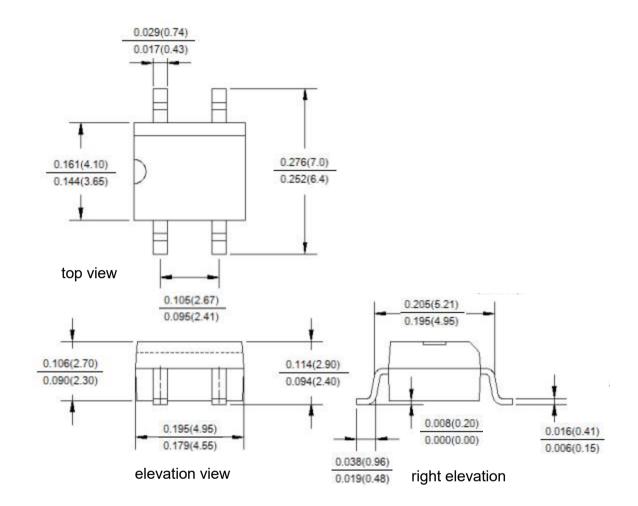


GOOD-ARK Electronics

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



(http://www.goodark.com)

MF2S thru MF10S

GOOD-ARK Electronics

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page.

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.