

Surface Mount Glass Passivated Bridge Rectifier

multicompPRO

**RoHS
Compliant**

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Lead tin plated copper

Specifications

Reverse Voltage : 200 to 600 Volts
Forward Current : 0.8 Amperes

Mechanical Data

Polarity : Symbol molded on body
Weight : 0.0044 ounces, 0.125 grams
Mounting Position : Any



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1,000	V
Max. RMS Voltage	VRMS	35	70	140	280	420	560	700	
Max. DC Blocking Voltage	VDC	50	100	200	400	600	800	1,000	
Max. Average Forward Rectified Current (Note 1) at TA = 40°C	IAV	0.8							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	30							
Max. Instantaneous Forward Voltage at 0.8A DC	VF	1.1							V
Max. DC Reverse Current at TA = 25°C Rated DC Blocking Voltage at TA = 125°C	IR	5 500							µA
Typical Junction Capacitance per Element (Note 2)	CJ	15							pF
Typical Thermal Resistance (Note 3)	RθJC	75							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG								

Notes:

1. Mounted on P.C. board.
2. Measured at 1.0MHz and applied reverse voltage of 4V DC.
3. Thermal resistance junction to case

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicompPRO

Surface Mount Glass Passivated Bridge Rectifier

multicompPRO

Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

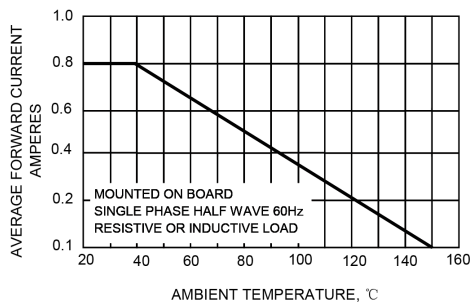


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

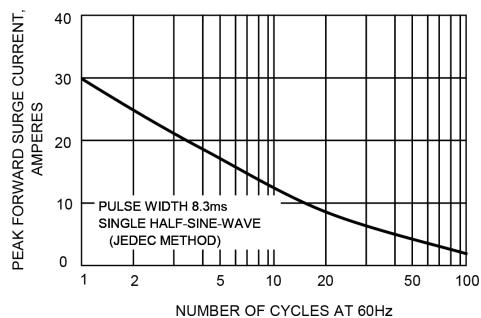


FIG.3-TYPICAL REVERSE CHARACTERISTICS

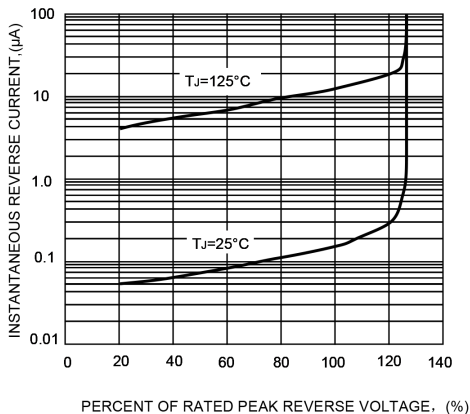


FIG.4-TYPICAL FORWARD CHARACTERISTICS

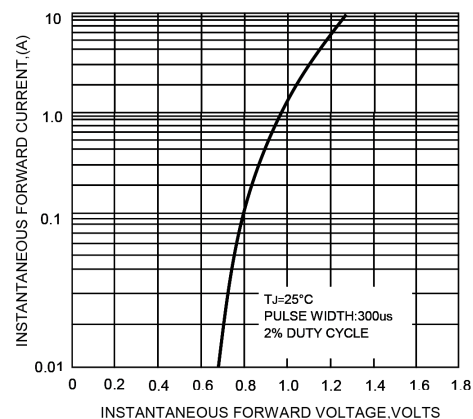
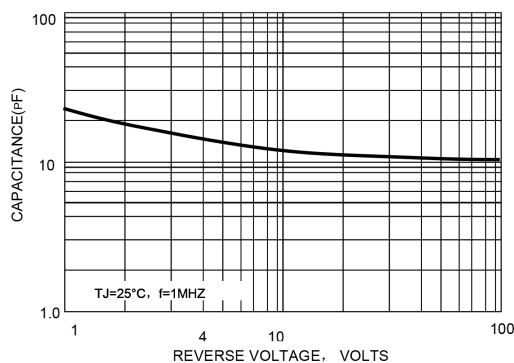


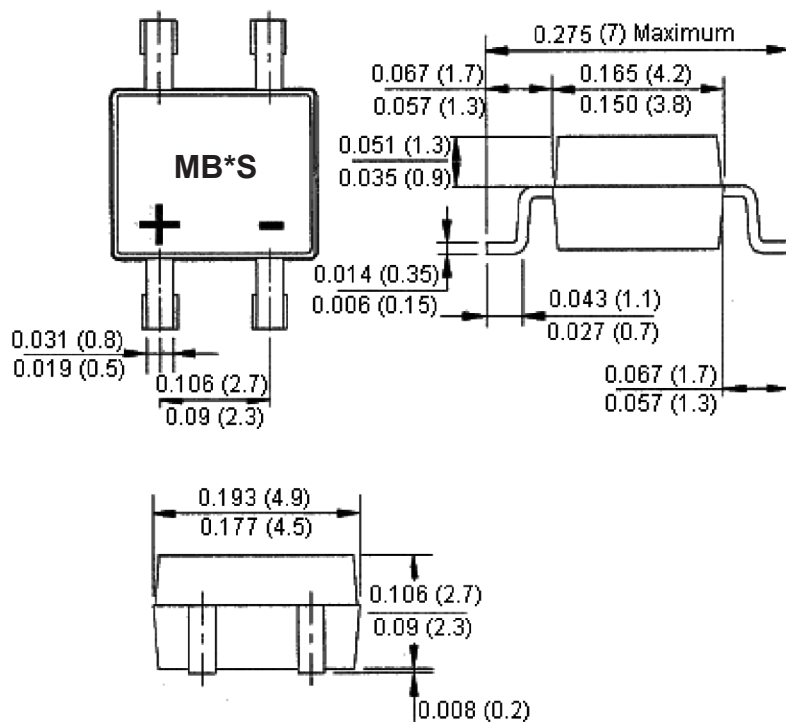
FIG.5-TYPICAL JUNCTION CAPACITANCE



Surface Mount Glass Passivated Bridge Rectifier

multicompPRO

Diagram



MB*S= Specific Device Code

*** = 05/1/2/4/6/8/10**

Part Number Table

Description	Part Number
Surface Mount Glass Passivated Bridge Rectifiers	MB05S
	MB1S
	MB10S
	MB2S
	MB4S
	MB6S
	MB8S

Dimensions : Inches (Millimetres)

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicompPRO