Surface Mount Glass Passivated Bridge Rectifier







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	
Max. RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Max. DC Blocking Voltage	VDC	50	100	200	400	600	800	1,000	
Max. Average Forward Rectified Current (Note 1) at TA = 40°C	l(AV)				0.8				
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	30					A		
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	lR	5 500					μΑ		
Typical Junction Capacitance per Element (Note 2)	Cı	15					pF		
Typical Thermal Resistance (Note 3)	Rejc	75					°C/W		
Operating Temperature Range	TJ	-55 to +150					°C		
Storage Temperature Range	Тѕтс	-55 to +150							

Notes:

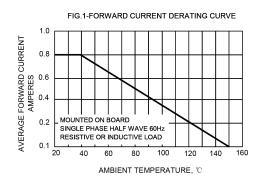
- 1. Mounted on P.C. board.
- 2. Measured at 1.0MHz and applied reverse voltage of 4V DC.
- 3. Thermal resistance junction to case

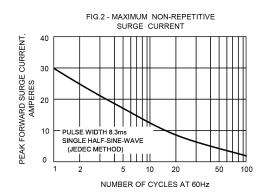


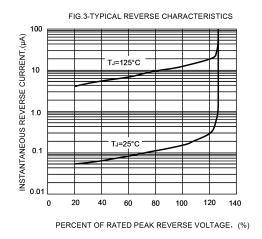
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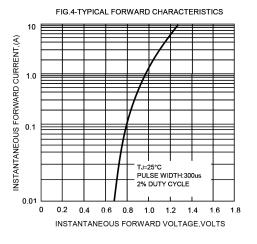


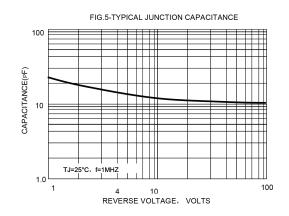
Ratings and Characteristic Curves











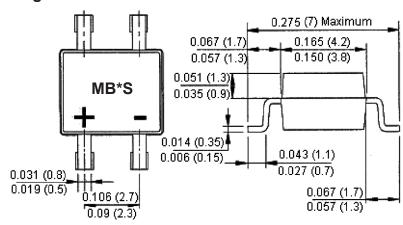
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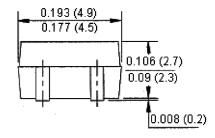


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Diagram





MB*S= Specific Device Code

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

Part Number Table

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

Dimensions: Inches (Millimetres)

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