

## DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

MB05S THRU MB10S

# TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 0.8 Ampere

#### **FEATURES**

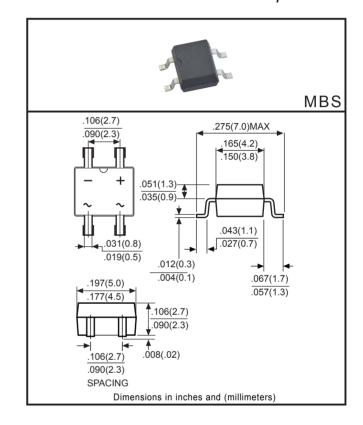
- \* Ideal for automatic placement
- \* Surge over rating 30 Amperes peak
- \* Glass passivated junction
- \* Reliable low cost construction
- \* Hihj surge forward current capability

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94-V0 rated flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Symbols molded or marked on body
- \* Mounting position: Any
- \* Weight: 0.13 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

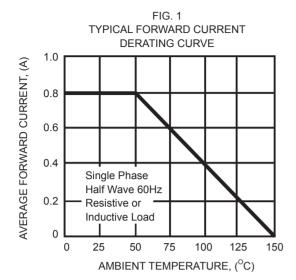


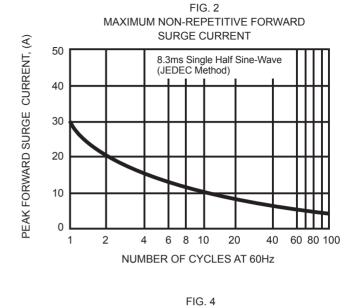
	SYMBOL	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo	0.8							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						Amps	
Maximum Instantaneous Forward Voltage at 0.8A DC	VF	1.1					Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage  @TJ = 25°C @TJ = 125°C	lR	5.0 100						μAmps	
Typical Thermal Resistance Junction to Ambient	$R\theta$ JA	75					°C/W		
Operating and Storage Temperature Range	Т <sub>J</sub> ,Тsтg	-55 to +150						°C	

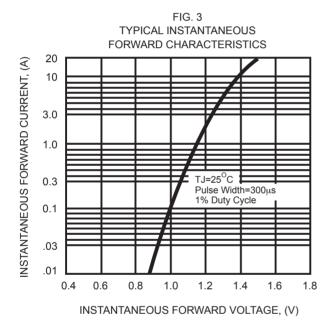
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

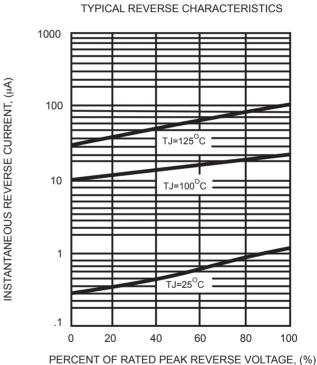
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### RATING AND CHARACTERISTIC CURVES (MB05S THRU MB10S)









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