



## MB2S THRU MB10S

PINGWEI ENTERPRISE

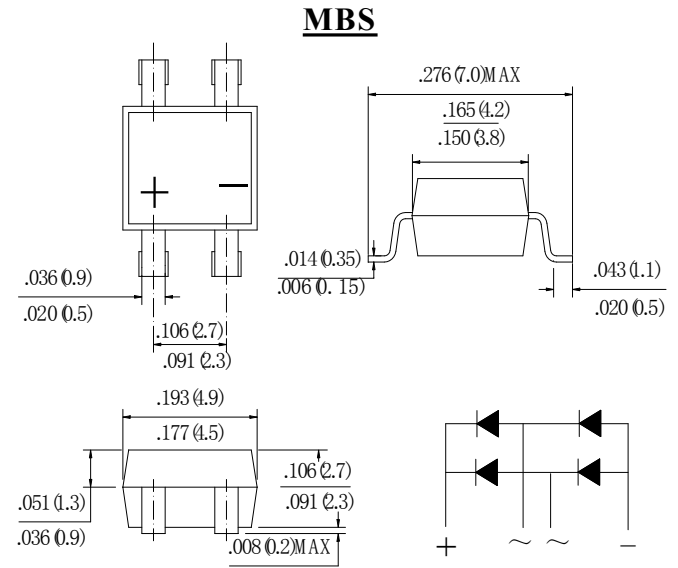
### SINGLE-PHASE 1.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

#### FEATURES

- . High surge current capability
- . Ideal for printed circuit board
- . Good for printed circuit board
- . Glass passivated junctions
- . Reliable low cost construction utilizing molded plastic technique
- . Small size , simple installation
- . High temperature soldering guaranteed:  
260°C/10 seconds at terminals.

#### MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL 94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity: Symbols molded or marked on body
- . Mounting position: Any
- . Weight: 0.125grams



Dimensions in inches and (millimeters)

### 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%

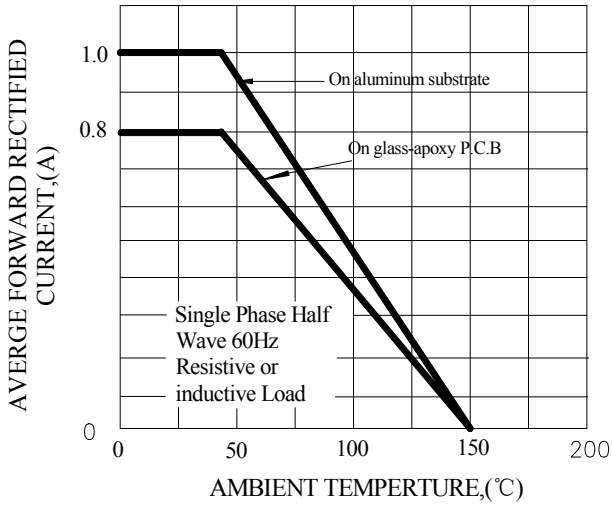
Type Number	SYM BOL	MB2S	MB4S	MB6S	MB8S	MB10S	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum Average Forward rectified Current On glass-apoxy P.C.B On aluminum substrate	$I_{F(AV)}$			0.8 1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$			30			A
Maximum Forward Voltage Drop per element at 0.4A DC	$V_F$			0.95			V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=125^\circ C$	$I_R$			10.0 200.0			$\mu A$
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$			3.74			A <sup>2</sup> Sec
Typical Junction Capacitance Per Leg(Note1)	$C_J$			13			pF
Typical Thermal Resistance Per Leg(Note2)	$R_{(JA)}$			85			°C/W
Storage Temperature	$T_{STG}$			-55 to +150			°C
Operating Junction Temperature	$T_J$			-55 to +150			°C

#### Note:

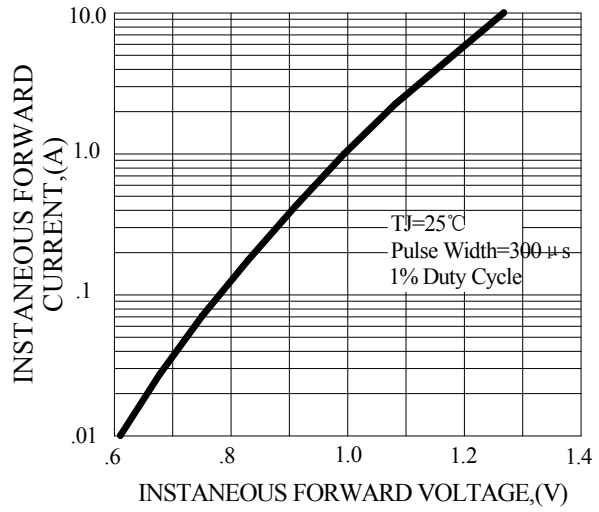
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient mounted on P.C.B with 0.2×0.2" (5×5mm) copper pads

**RATING AND CHARACTERISTIC CURVES (MB2S THRU MB10S)**

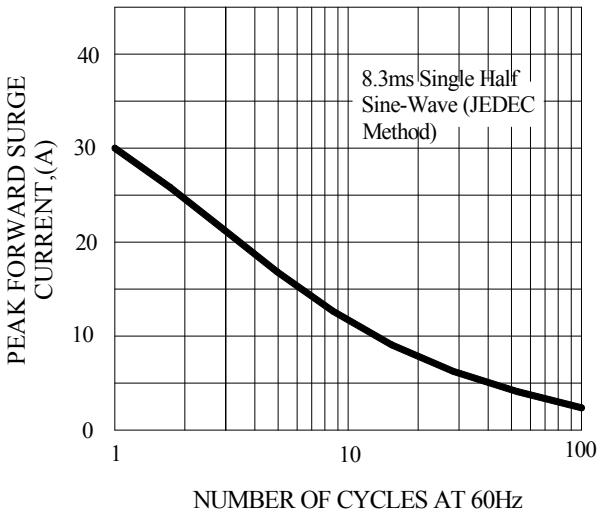
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



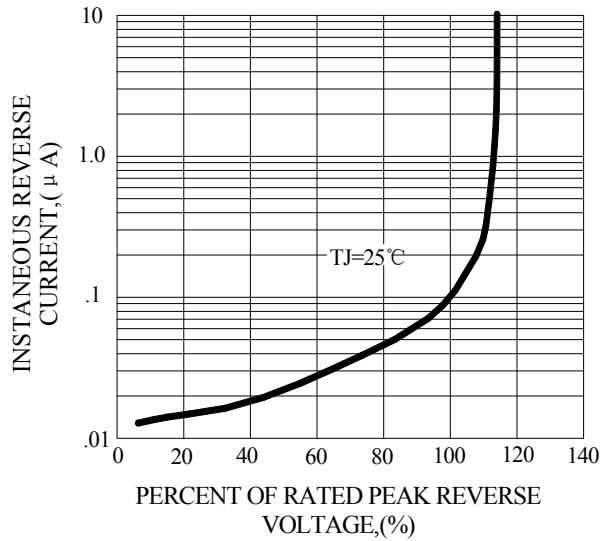
**FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



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