

## SILICON BRIDGE RECTIFIERS

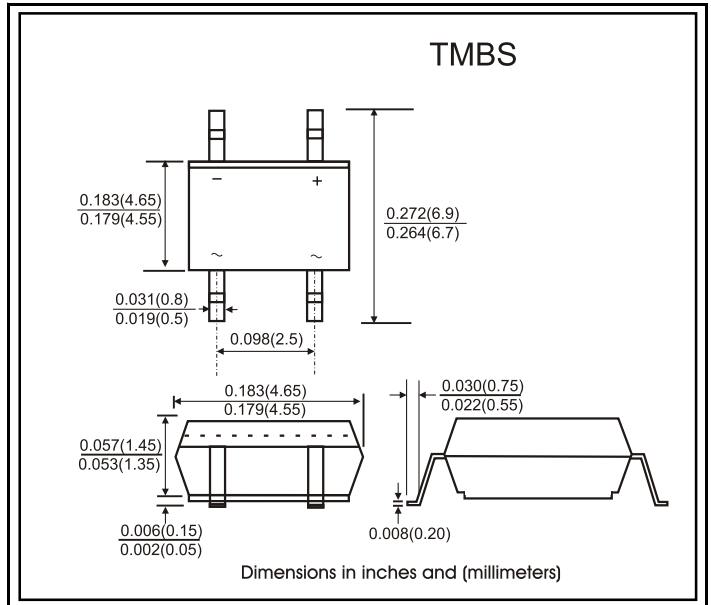
**VOLTAGE RANGE: 100 --- 1000 V**  
**CURRENT: 0.8 A**

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### MECHANICAL DATA

- Case: MBS molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Weight: 0.0044ounce, 0.125 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

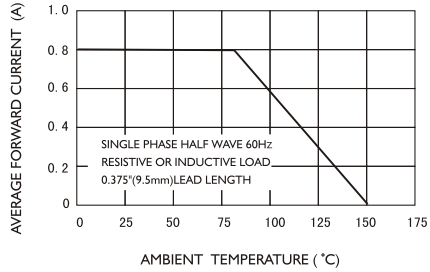
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

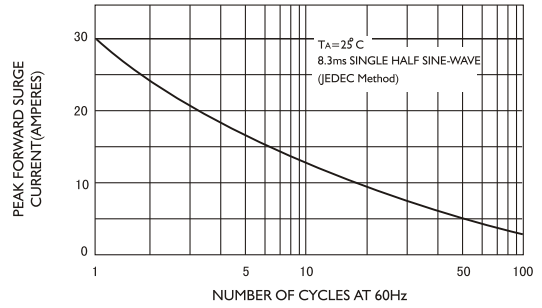
	Symbols	TMB1S	TMB2S	TMB4S	TMB6S	TMB8S	TMB10S	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I(AV)	0.8						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30						Amps
Maximum Instantaneous Forward Voltage at 0.5 A DC	V <sub>F</sub>	1.0						Volts
Maximum DC Reverse Current at rated DC blocking voltage	T <sub>A</sub> =25 °C	5						μA
	T <sub>A</sub> =125 °C	100						
Typical junction capacitance(Note2)	C <sub>J</sub>	15						pF
Typical thermal resistance(Note 3)	R <sub>θJA</sub>	70						K/W
Operating junction and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-55 to +150						°C

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
 2. Thermal resistance from junction to ambient.

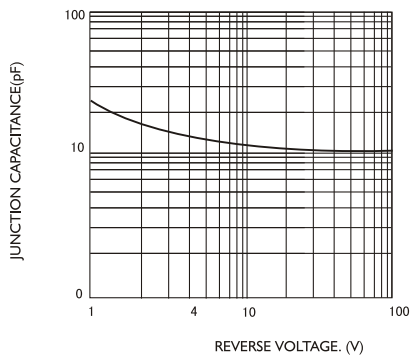
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



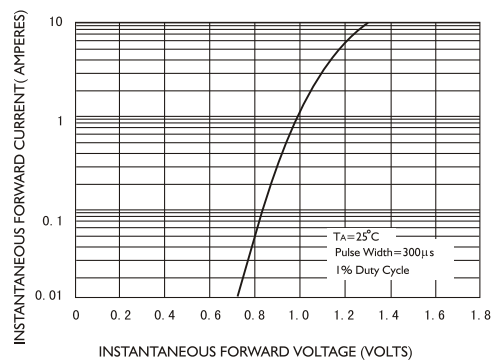
**FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG3-TYPICAL JUNCTION CAPACITANCE**



**FIG4-TYPICAL FORWARD CHARACTERISTICS**



**FIG.5-TYPICAL REVERSE CHARACTERISTICS**

