

# MB6S-1-E THRU MB10S-1-E

**SINGLE PHASE GLASS PASSIVATED  
SURFACE MOUNT FLAT BRIDGE RECTIFIER**  
**VOLTAGE: 600V to 1000V      CURRENT: 0.8A**

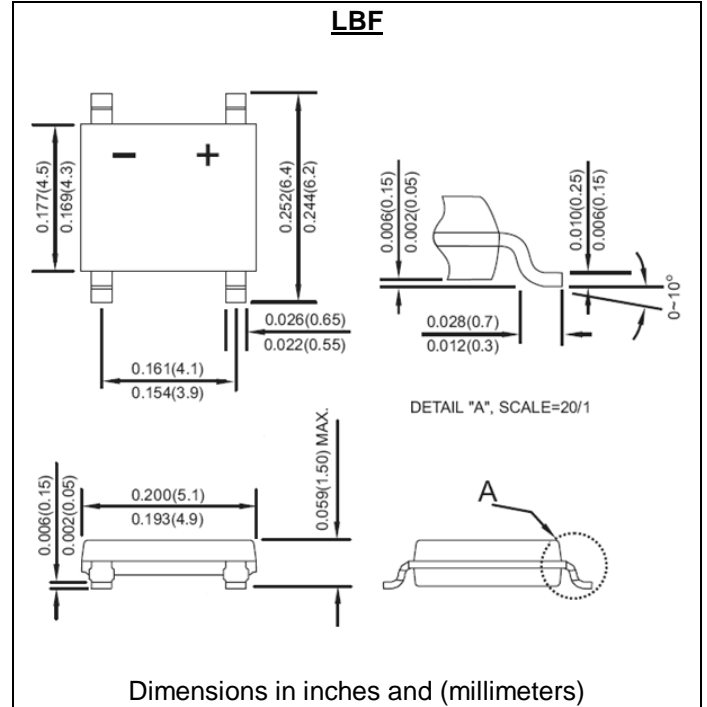


## FEATURE

Ideal for printed circuit board  
 Glass passivated chip  
 Reliable low cost construction utilizing molded plastic technique  
 Small size, simple installation  
 High temperature soldering guaranteed: 260°C/10 seconds  
 Halogen Free

## MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002  
 Case: UL-94 Class V-0 recognized Halogen Free Epoxy  
 Polarity: Polarity symbol marked on body  
 Marking: MB6S MB8S MB10S



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	MB6S-1-E	MB8S-1-E	MB10S-1-E	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	420	560	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	600	800	1000	V
Maximum Average Forward Rectified Current on glass-epoxy P.C.B.	I <sub>f(av)</sub>	0.8			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	25			A
Maximum Instantaneous Forward Voltage at Forward Current 0.4A	V <sub>f</sub>	0.98			V
Maximum DC Reverse Current at rated DC blocking voltage	I <sub>r</sub>	5.0 100.0			μA
Typical Thermal resistance junction to lead on glass-epoxy P.C.B.	R <sub>th(jl)</sub> R <sub>th(ja)</sub>	42 88			°C/W
Storage and Operating Junction Temperature Range	T <sub>stg, Tj</sub>	-55 to +150			°C

Note:

RATINGS AND CHARACTERISTIC CURVES MB6S-1-E THRU MB10S-1-E

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

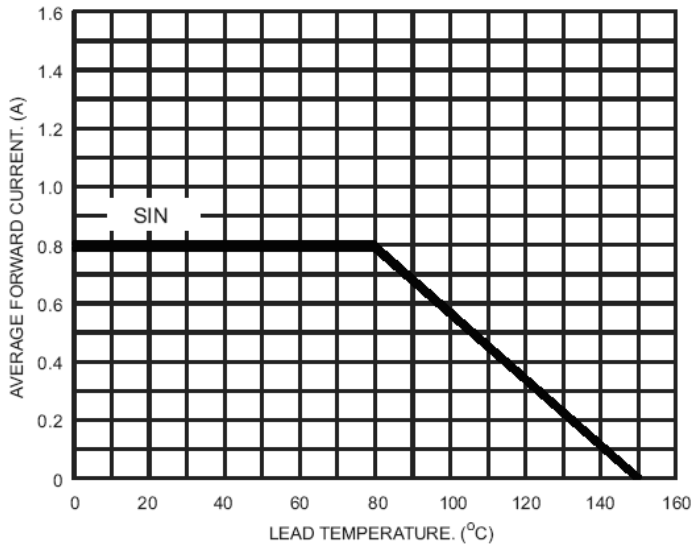


FIG.2- TYPICAL FORWARD CHARACTERISTICS

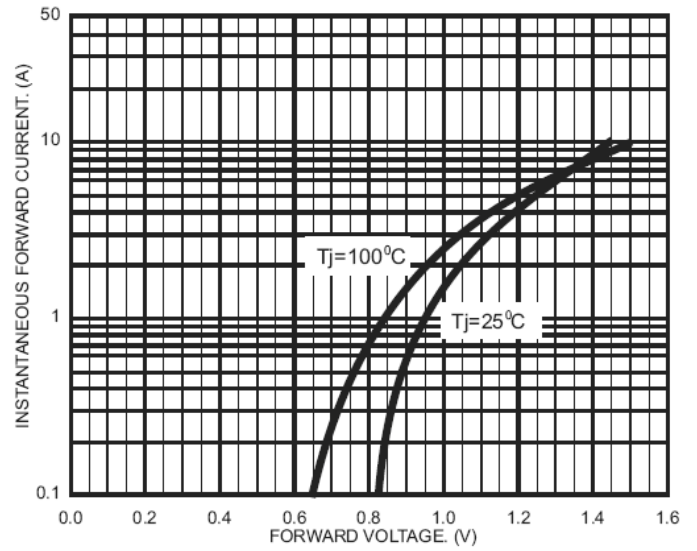


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

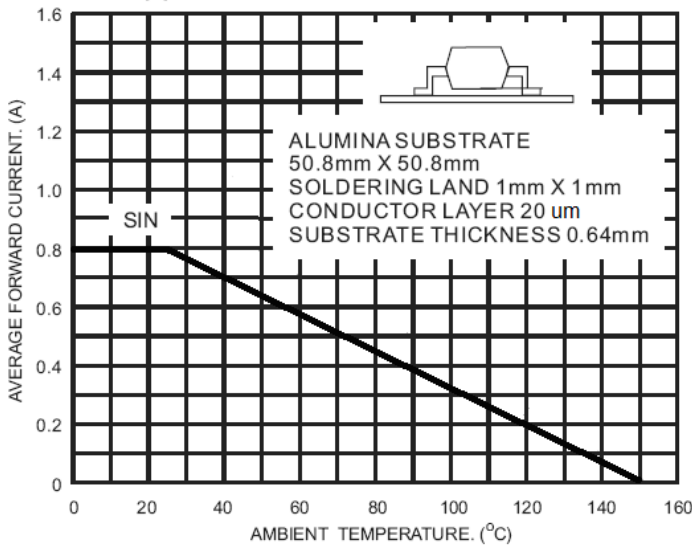


FIG.4- FORWARD POWER DISSIPATION

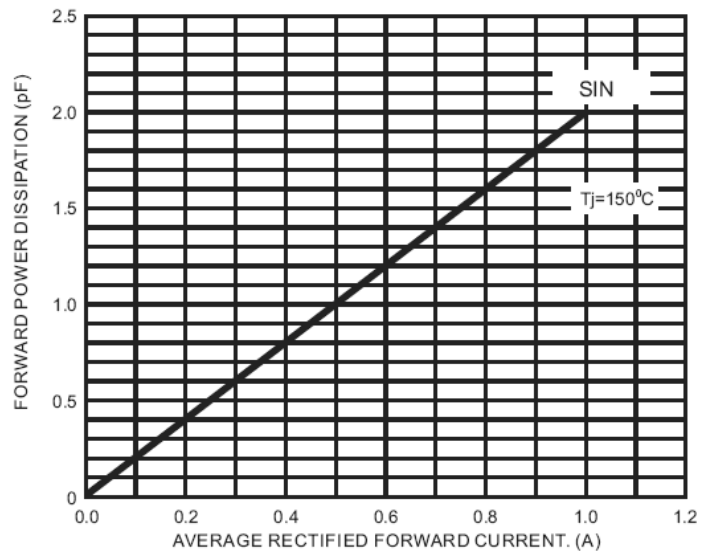


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

