MB6S-1 THRU MB10S-1

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT FLAT BRIDGE RECTIFIER

VOLTAGE: 600V to 1000V **CURRENT: 0.8A**

VOLTARISTECH INC.
POWER • PRECISION • INNOVATION

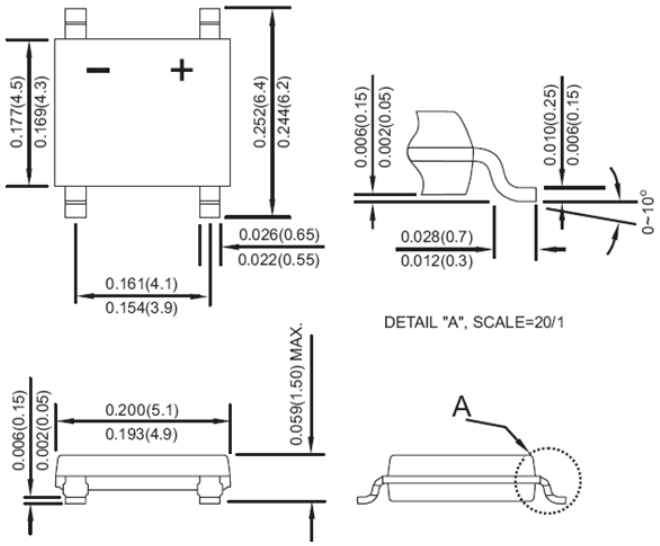
FEATURE

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℃/10 seconds

MECHANICAL DATA

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

LBF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbol	MB6S-1	MB8S-1	MB10S-1	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	800	1000	V
Maximum RMS Voltage	Vrms	420	560	700	V
Maximum DC blocking Voltage	VDC	600	800	1000	V
Maximum Average Forward Rectified Current on glass-epoxy P.C.B.	If(av)	0.8			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	25			A
Maximum Instantaneous Forward Voltage at Forward Current 0.4A	Vf	0.98			V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =110℃	Ir	5.0 100.0			μA
Typical Thermal resistance junction to lead on glass-epoxy P.C.B.	Rth(jl) Rth(ja)	42 88			℃/W
Storage and Operating Junction Temperature Range	Tstg, Tj	-55 to +150			℃

Note:

RATINGS AND CHARACTERISTIC CURVES MB6S-1 THRU MB10S-1

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

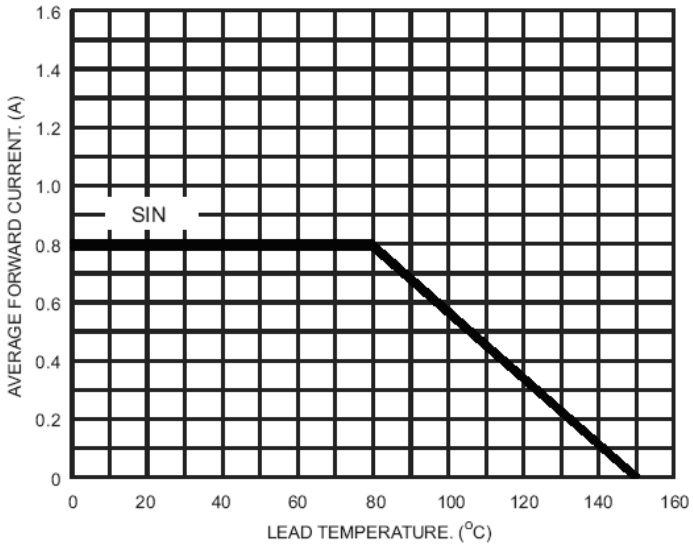


FIG.2- TYPICAL FORWARD CHARACTERISTICS

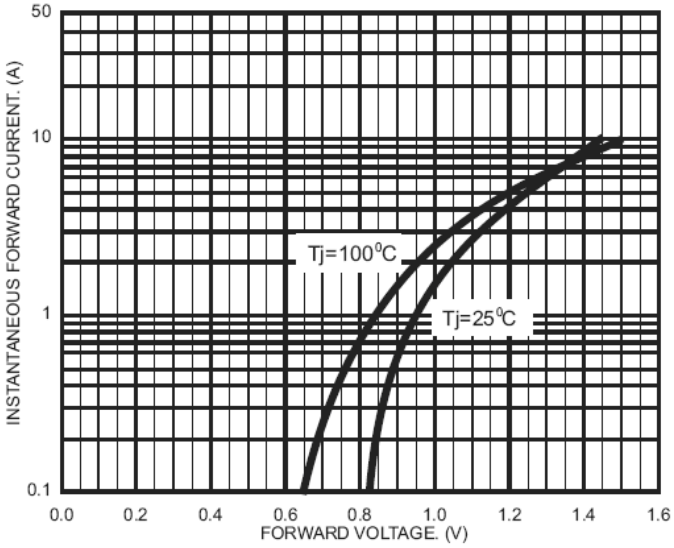


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

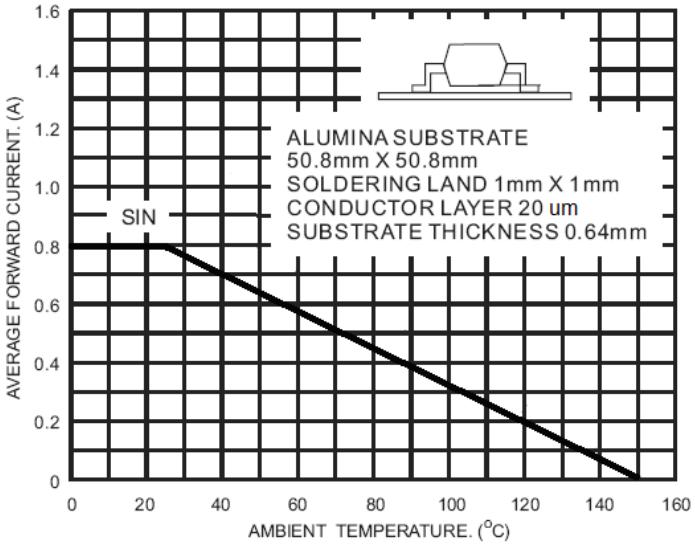


FIG.4- FORWARD POWER DISSIPATION

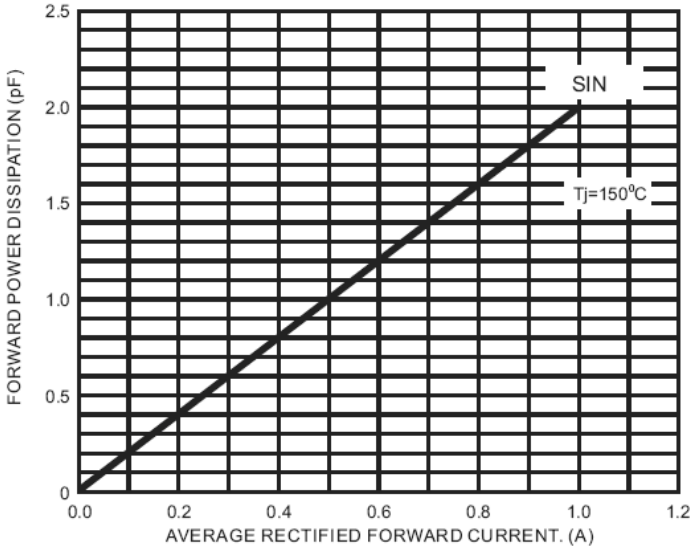


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT