

MBS06 THRU MBS10

**SINGLE PHASE GLASS
PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER**

VOLTAGE: 600V to 1000V

CURRENT: 0.8A

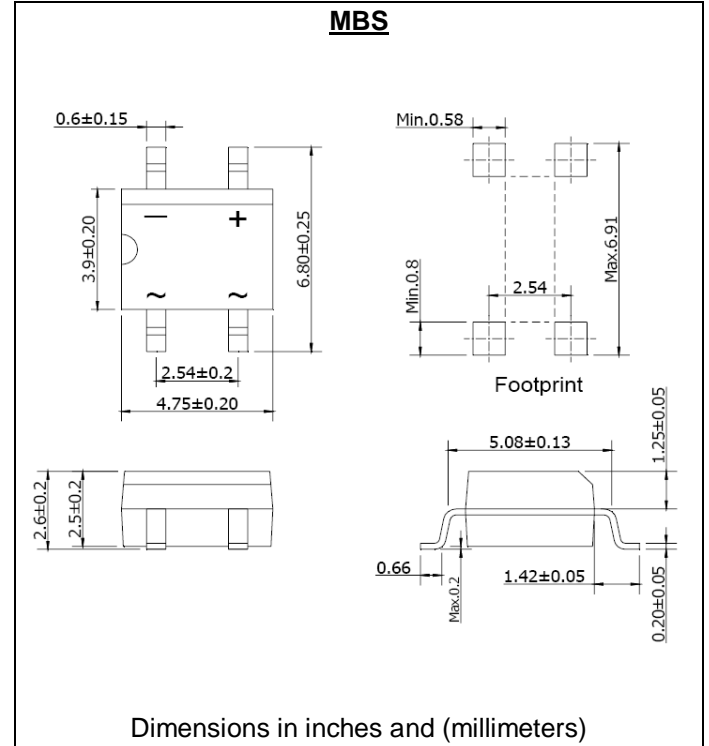


FEATURE

For surface mount application
Reliable low cost construction utilizing molded plastic
Technique
Surge overload rating:30A peak

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
Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbol	MBS06	MBS08	MBS10	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	600	800	1000	V
Maximum RMS Voltage	V _{rms}	420	560	700	V
Maximum DC blocking Voltage	V _{DC}	600	800	1000	V
Maximum Average Forward Rectified Current	I _{f(av)}	0.8 0.5			A
Peak Forward Surge Current single sine-wave superimposed on rated load(JEDEC Method)	I _{fsm}	30.0			A
Maximum Instantaneous Forward Voltage at forward current 0.4A	V _f	1.0			V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	5.0 100.0			μA
Rating for fusing(t < 8.3ms)	I ² t	5.0			A ² sec
Typical Junction Capacitance (Note1)	C _j	13.0			pF
Typical Thermal resistance	R _{th(ja)} R _{th(ja)} R _{th(jl)}	70 85 20			°C/W
Storage and Operating Junction Temperature Range	T _{stg} , T _j	-55 to +150			°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0 volt

Fig. 1 - Derating Curve for Output Rectified Current

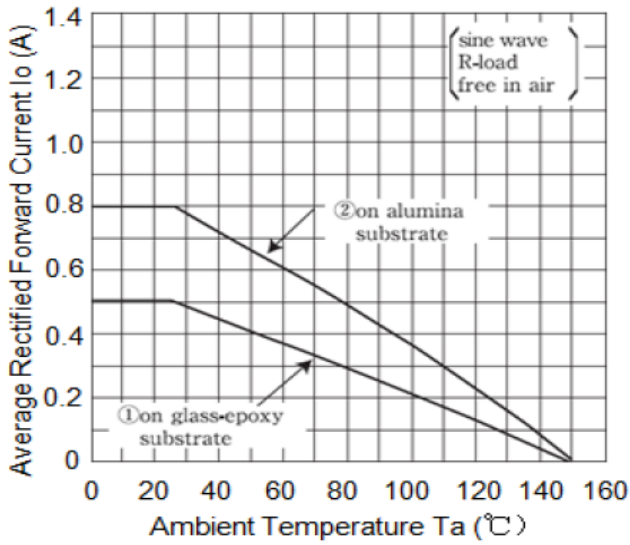


Fig. 2 - Derating Curve for Output Rectified Current

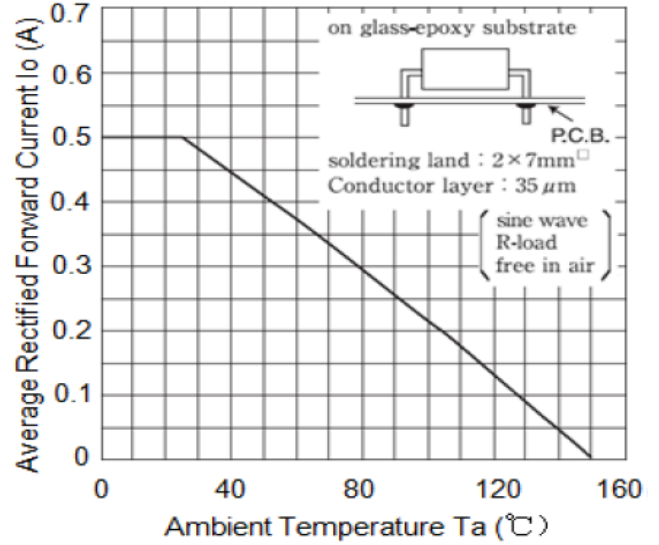


Fig. 3 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

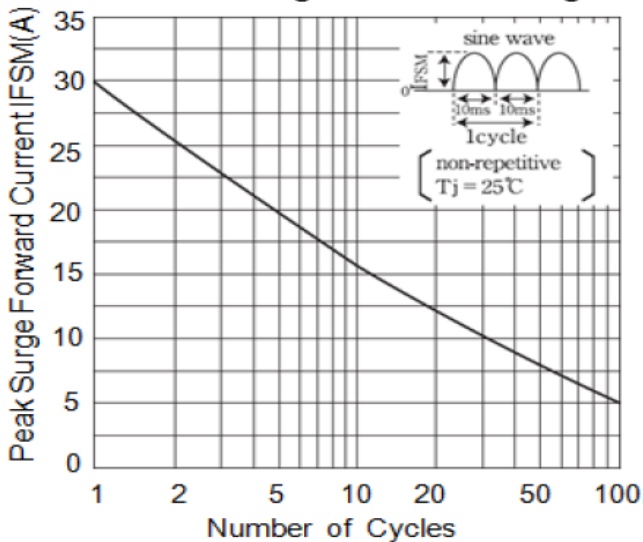


Fig. 4 - Typical Forward Voltage Characteristics Per Leg

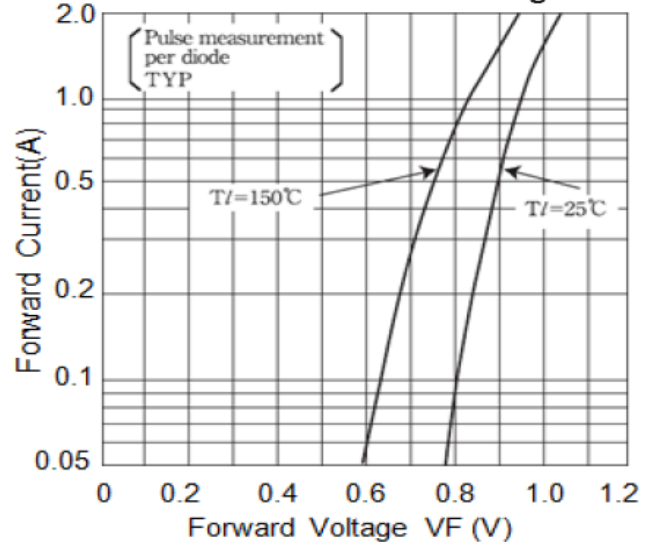


Fig. 5 - Typical Forward Power Dissipation

