

MB1S THRU MB10S

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage: 100 to 1000 Volts
Forward Current: 1.0 Amps

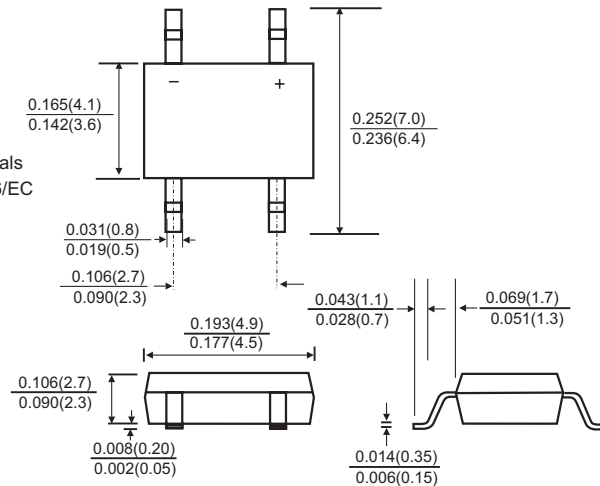
FEATURES

- 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

MBS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

		Symbols	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		I(AV)	1.0						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30						Amps
Maximum Instantaneous Forward Voltage at 1.0 A DC		VF	1.1						Volts
Maximum DC Reverse Current at rated DC blocking voltage	TA=25° C	IR	5						μ A
	TA=125° C		100						
Typical junction capacitance(Note2)		CJ	15						pF
Typical thermal resistance (Note1)		RθJA	75						°C/W
		RθJC	30						
Operating junction and storage temperature range		TJ TSTG	-55 to +150						°C

Note: 1. On glass epoxy P. C. B. mounted on 0.05×0.05" (1.3×1.3mm) pads.

2. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES MB1S THRU MB10S

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

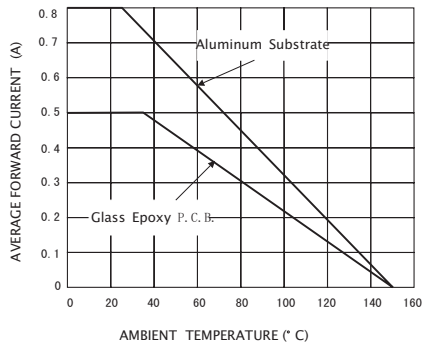


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

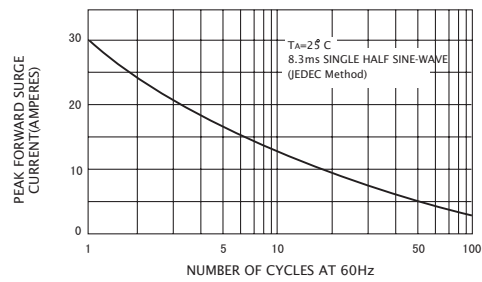


FIG3-TYPICAL JUNCTION CAPACITANCE

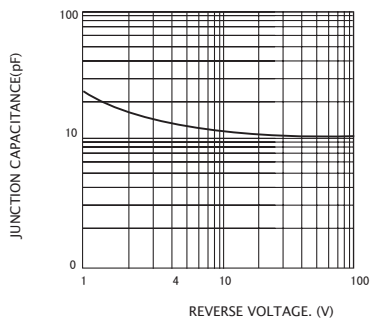


FIG4-TYPICAL FORWARD CHARACTERISTICS

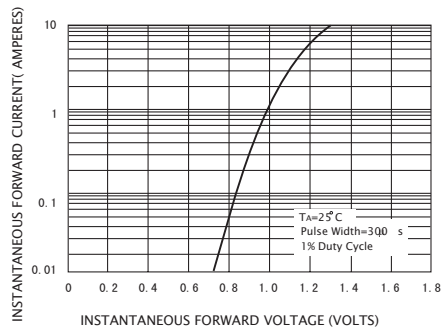


FIG.5-TYPICAL REVERSE CHARACTERISTICS

