SEMICONDUCTOR

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage: 100 to 1000 Volts
Forward Current: 0. 8 Amps

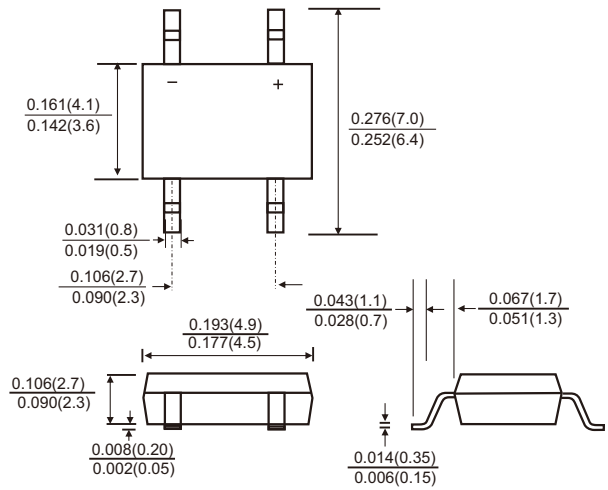
FEATURES

- 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 2011/65/EU

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℃ 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	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	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_{FSM}	30						Amps
Maximum Instantaneous Forward Voltage at 0. 8 A DC	V_F	1.1						Volts
Rating for fusing (t<8. 3ms)	I^2t	3.735						A^2s
Maximum DC Reverse Current at rated DC blocking voltage T_A=25°C	I_R	5						μ A
Maximum DC Reverse Current at rated DC blocking voltage T_A=125°C	I_R	100						μ A
Typical junction capacitance(Note2)	C_J	15						pF
Typical thermal resistence (Note1)	$R_{\theta JA}$	96						℃/W
Typical thermal resistence (Note1)	$R_{\theta JC}$	40						℃/W
Operating junction and storage temperature range	T_J T_{STG}	-55 to +150						℃

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-TYPRCAL FORWARD CURRENT DERATING CURVE

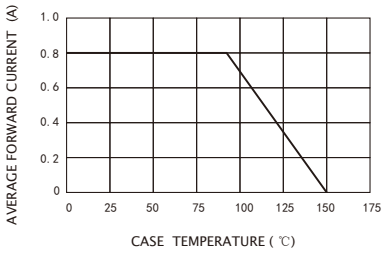


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

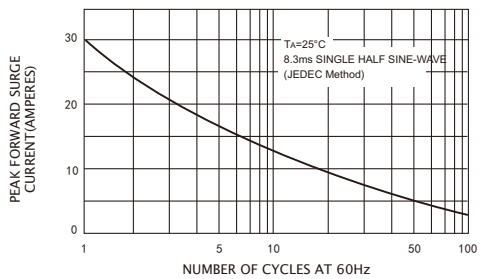


FIG3-TYPICAL JUNCTION CAPACITANCE

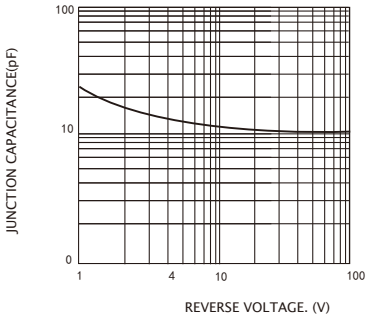


FIG4-TYPICAL FORWARD CHARACTERISTICS

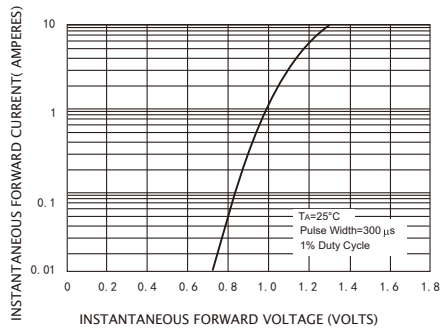


FIG.5-TYPICAL REVERSE CHARACTERISTICS