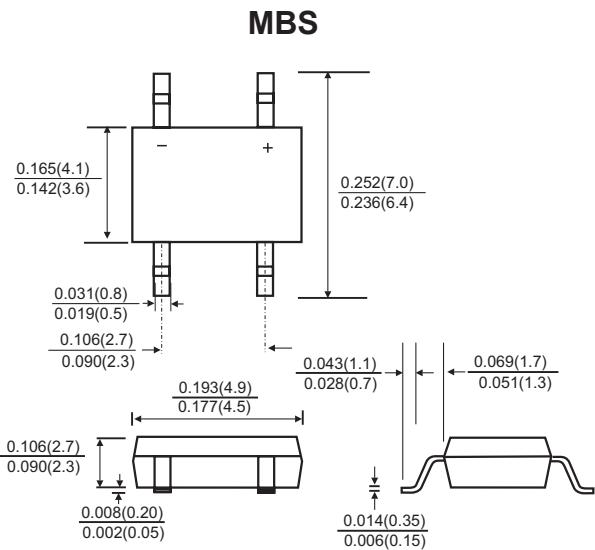


BRIDGE RECTIFIER
**REVERSE VOLTAGE : 100 --- 1000 V
FORWARD CURRENT: 0.5 A**
FEATURES

- Ideal for printed circuit board
- Plastic package has Underwriters laboratory Flammability classification 94V-0
- Glass passivated chip junction
- Rating to 1000v PRV
- 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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate by 20%.

		MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output current @ T _A =25°C	I _{F(AV)}	0.5 ¹⁾ 0.8 ²⁾							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	35.0							A
Maximum instantaneous forward voltage @ 0.4 A	V _F	1.0							V
Maximum reverse current @ T _A =25°C at rated DC blocking voltage @ T _A =100°C	I _R	5.0 0.5							µA mA
Typical junction capacitance per leg (NOTE 3)	C _J	13							pF
Typical thermal resistance per leg (NOTE 1) (NOTE 2)	R _{θ JA} R _{θ JL}	85 20							°C/W
Operating junction temperature range	T _J	- 55 ---- + 150							°C
Storage temperature range	T _{STG}	- 55 ---- + 150							°C

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

(2) On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

(3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts



RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

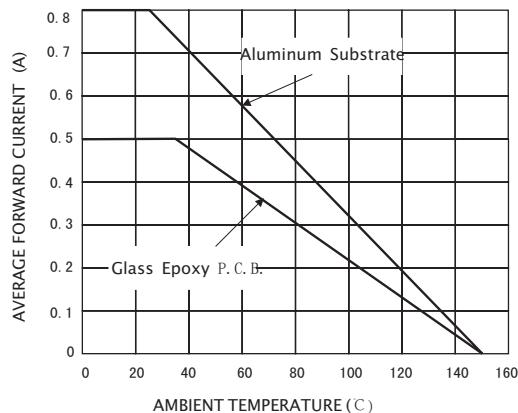


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

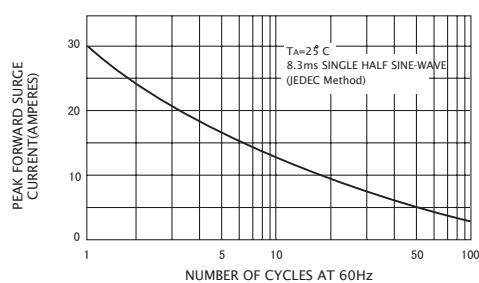


FIG3-TYPICAL JUNCTION CAPACITANCE

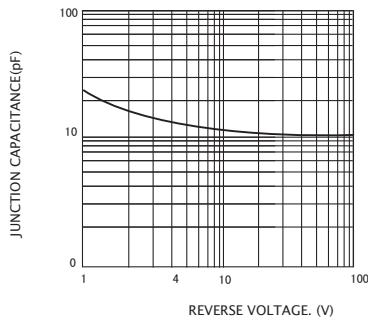


FIG4-TYPICAL FORWARD CHARACTERISTICS

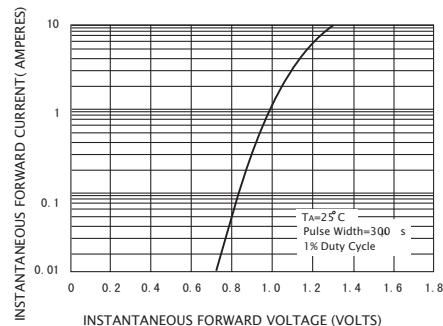


FIG.5-TYPICAL REVERSE CHARACTERISTICS

