MB2S-MB10S

0.5A Surface Mount Bridge Rectifiers

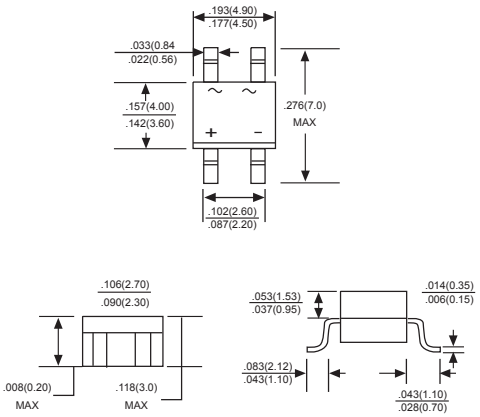
Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260*/10 seconds at 5 lbs., (2.3kg) tension
- Small size, simple installation
- Leads solderable per MIL-STD-202, Method 208
- High surge current capability

Mechanical Data

- **Case**: Molded plastic body
- **Terminals**: Plated leads solderable per MIL-STD-750, Method 2026
- **Polarity**: Polarity symbols marked on case
- **Mounting Position**: Any
- **Weight**:0.04 ounce, 1.0 grams

MBS



Maximum Ratings and Electrical Characteristics

@ T_A = 25°C unless otherwise specified

Single phase half-wave 60Hz,resistive or inductive load, for capacitive load derate current by 20%.

	SYMBOLS	MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T_A=30* On glass-epoxy P.C.B. On aluminum substrate	$I_{F(AV)}$	0.5 0.8					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35					Amps
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	1.0					Volts
Maximum DC reverse current T_A=25* at rated DC blocking voltage T_A=100*	I_R	5.0 100					uA uA
Typical junction capactiance per leg(Note3)	C_J	15					pF
Typical thermal resistance per leg	R_{*JA}	75					*/W
Operating temperature range	T_J	-55 to +150					*
storage temperature range	T_{STG}	-55 to +150					*

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads
2.On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad
3.Measured at 1.0MHz and applied reverse valtage of 4.0 volts.

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT FOR

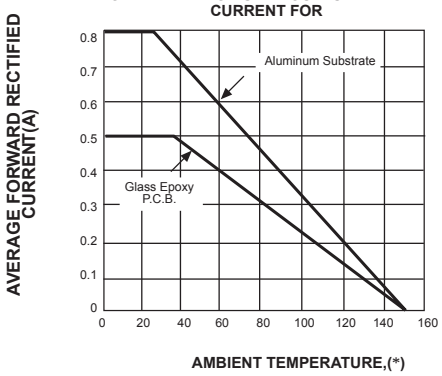


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

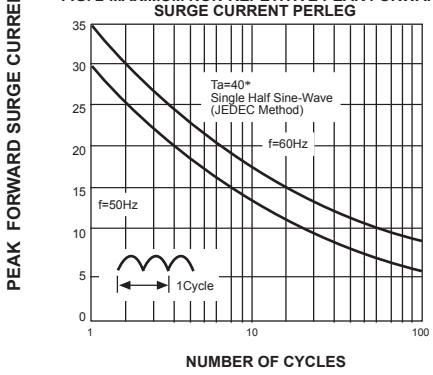


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

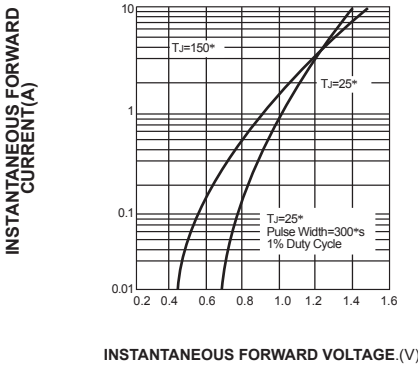


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

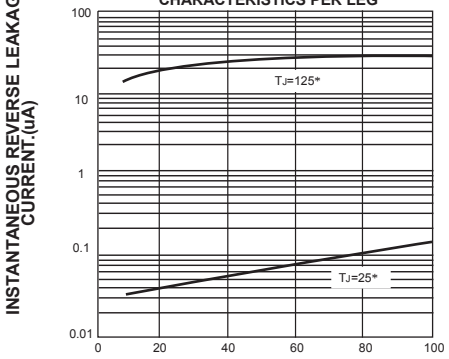


FIG. 5-TYPICAL JUNCTION CAPACTITANE PER LEG