SILICON BRIDGE RECTIFIERS

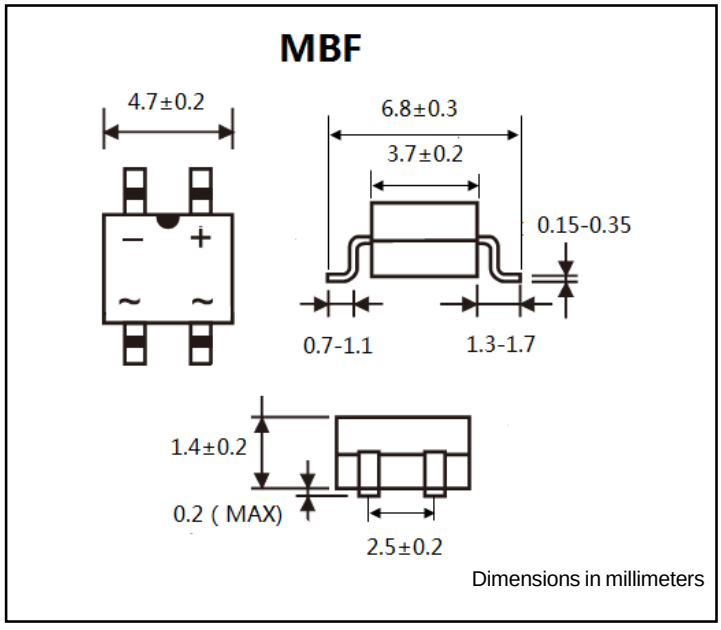
VOLTAGE : 1000 V
CURRENT: 0.8A

FEATURES

- ◇ Glass passivated chip junctions
- ◇ Plastic materrial has U/L flammability classification 94V-O
- ◇ High surge overload rating: 35A peak
- ◇ Saves space on printed circuit boards
- ◇ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body over passivated junctions
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on body
Dimensions in millimeters
Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		MB10F	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forw ard output current @T_A=25℃	$I_{F(AV)}$	0.8[1)]	A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	30.0	A
Maximum instantaneous forw ard voltage @ 0.4 A	V_F	1.0	V
Maximum reverse current @T_A=25℃	I_R	5.0	μA
at rated DC blocking voltage @T_A=100℃		0.5	mA
Typical junction capacitance per leg (NOTE 2)	C_J	13	pF
Typical thermal resistance per leg (NOTE 1)	$R_{\theta JA}$ $R_{\theta JL}$	85 20	℃/W
Operating junction temperature range	T_J	- 55 ---- + 150	℃
Storage temperature range	T_{STG}	- 55 ---- + 150	℃

NOTES: (1) 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
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT FOR

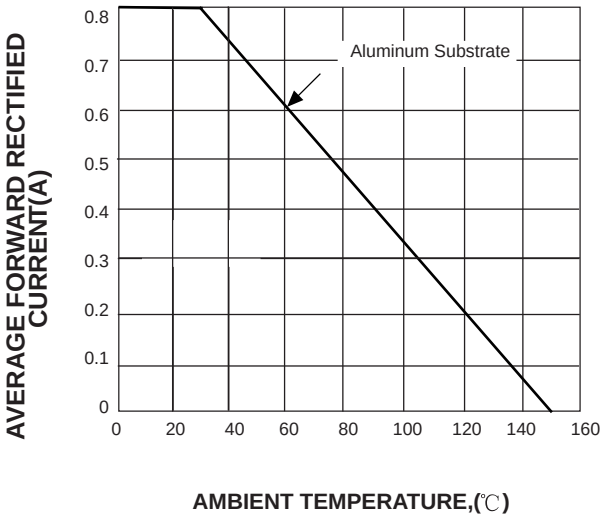


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

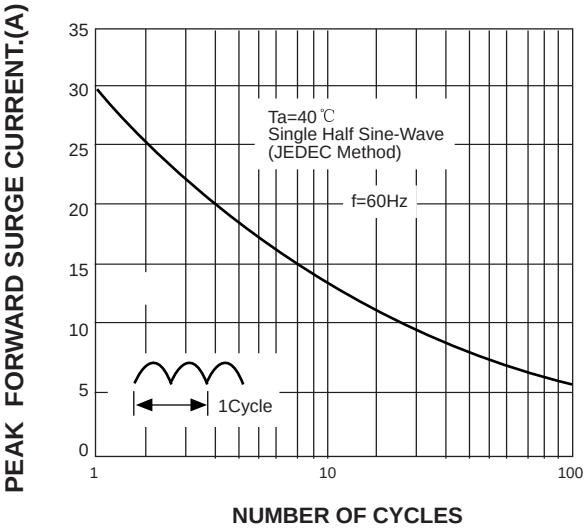


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

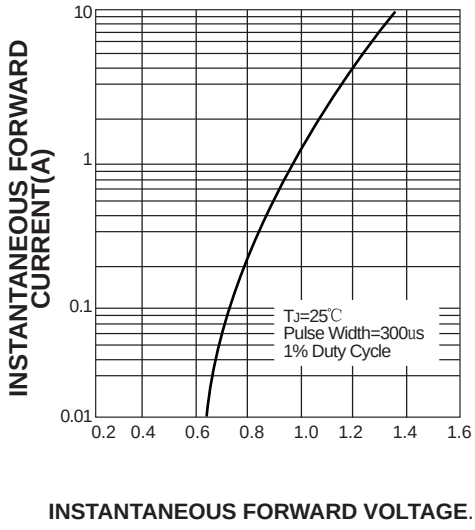


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

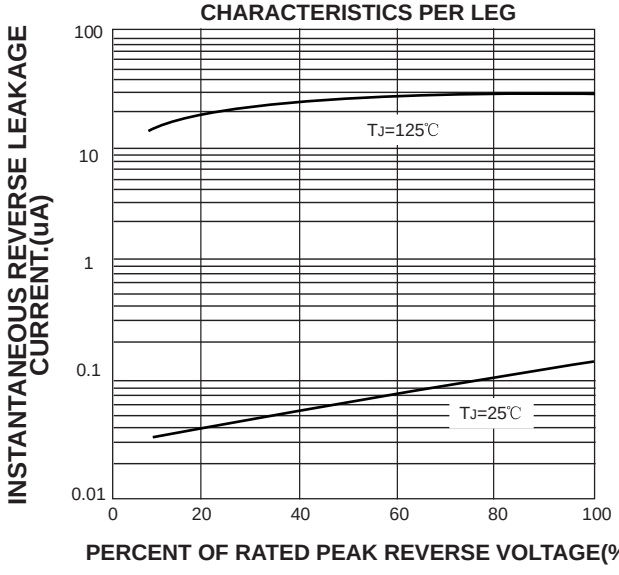


FIG. 5-TYPICAL JUNCTION CAPACTITANE PER LEG