

SILICON BRIDGE RECTIFIERS

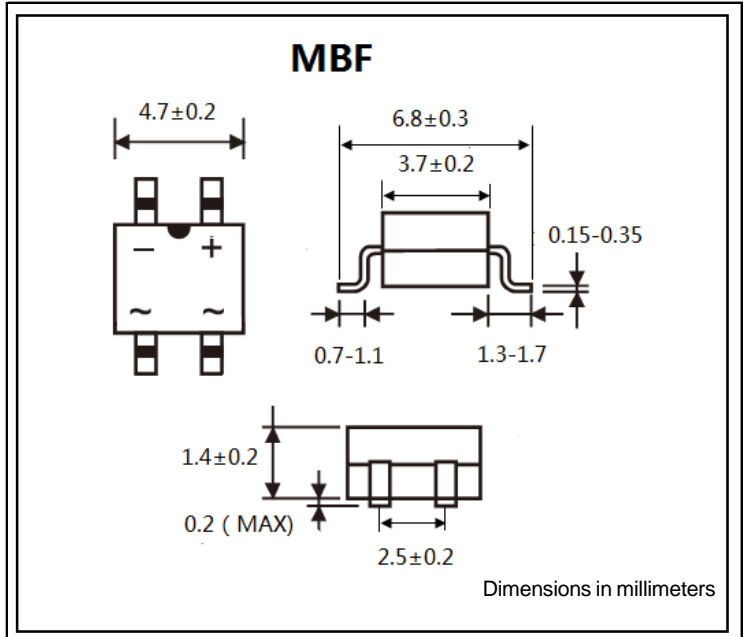
VOLTAGE : 600 V
CURRENT: 0.8A

FEATURES

- ◇ Glass passivated chip junctions
- ◇ Plastic material has U/L flammability classification 94V-0
- ◇ 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°C ambient temperature unless otherwise specified.

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

		MB6F	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward output current @ $T_A=25^\circ C$	$I_{F(AV)}$	0.8 ¹⁾	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	30.0	A
Maximum instantaneous forward voltage @ 0.4 A	V_F	1.0	V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	5.0 0.5	μA mA
Typical junction capacitance per leg (NOTE 2)	C_J	13	pF
Typical thermal resistance per leg (NOTE 1)	R_{JA} R_{JL}	85 20	$^\circ C/W$
Operating junction temperature range	T_J	- 55 ---- + 150	$^\circ C$
Storage temperature range	T_{STG}	- 55 ---- + 150	$^\circ C$

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

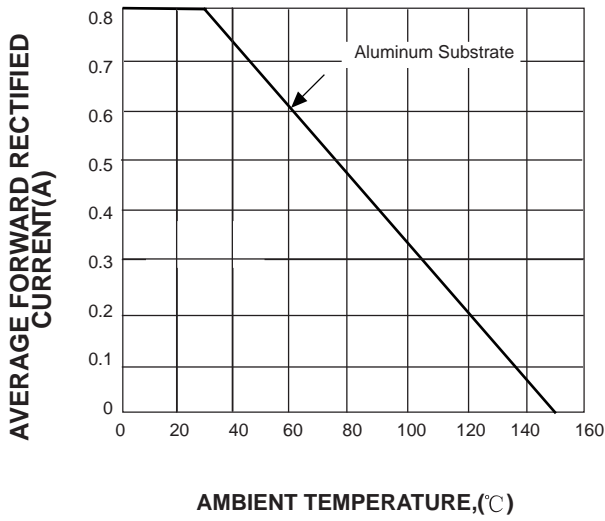


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

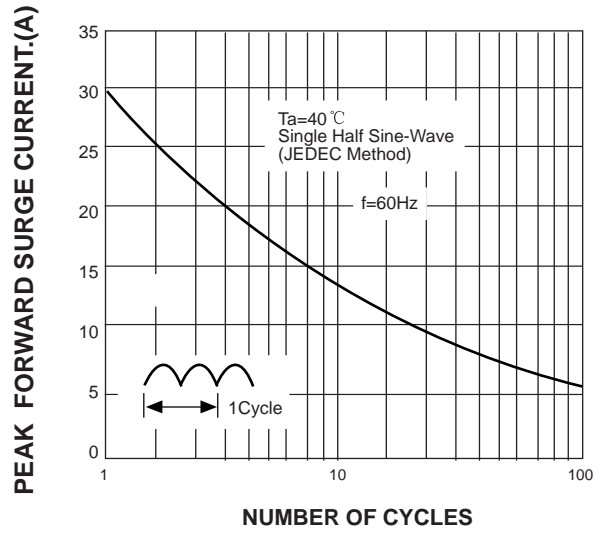


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

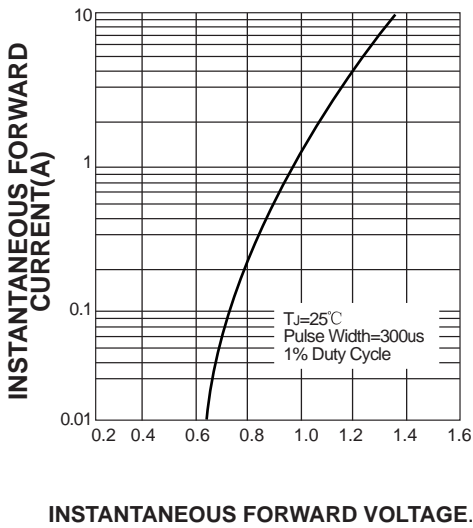


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

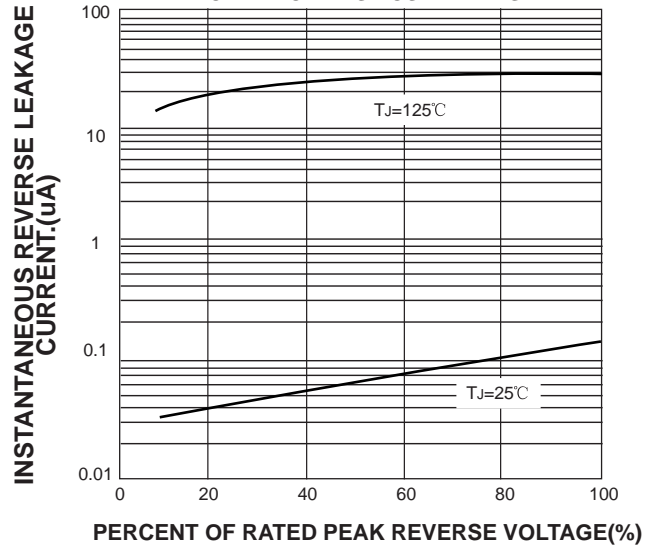


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER LEG

