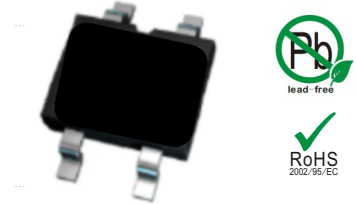


Features

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



MBF

Mechanical Data

- Case: MBF Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any
- Weight: 0.008 ounce, 0.22 grams

Maximum Ratings & Characteristics

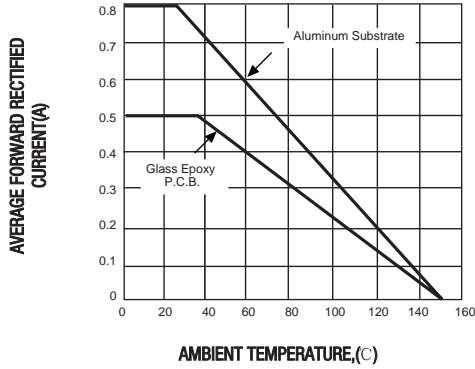
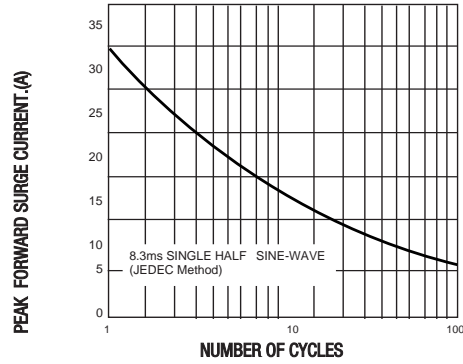
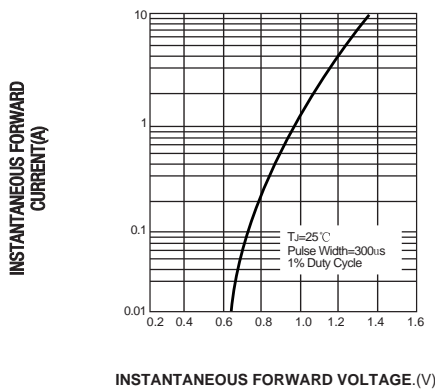
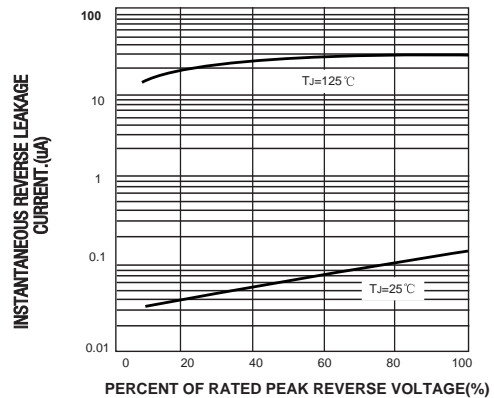
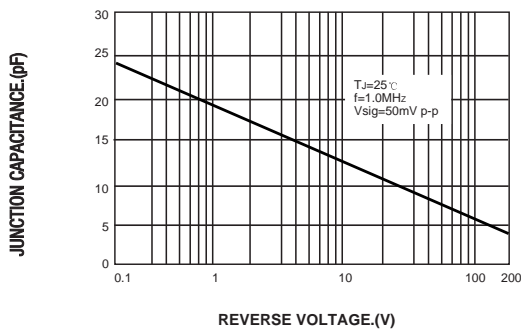
Ratings at 25°C ambient temperature unless other wise specified.

Parameter	Symbols	MB2F	MB4F	MB6F	MB8F	MB10F	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 $T_A=30^\circ\text{C}$ On glass-epoxy P.C.B. (Note1) On aluminum substrate (Note2)	$I_{F(AV)}$	0.5 0.8					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					Amps
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	1.0					Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	I_R	5.0 500					μA μA
Typical junction capacitance per leg (Note3)	C_J	15					pF
Typical thermal resistance per leg	$R_{\theta JA}$	75					$^\circ\text{C}/\text{W}$
Operating temperature range	T_J	-55 to +150					$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150					$^\circ\text{C}$

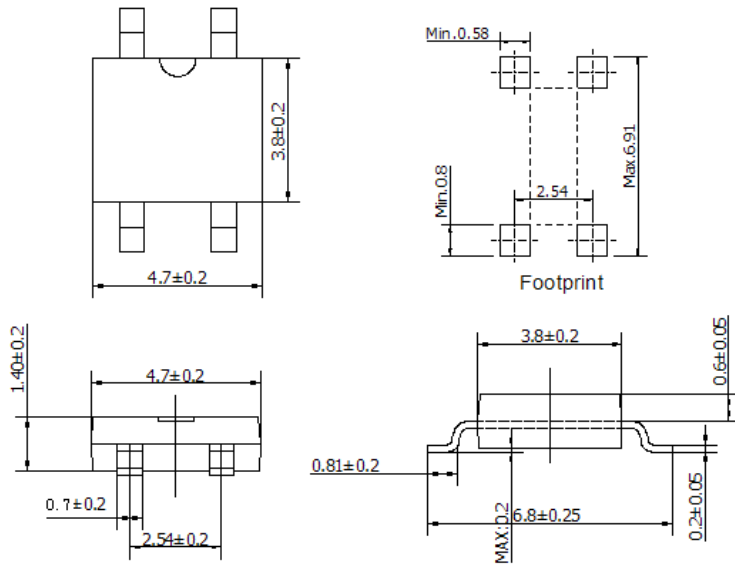
Notes: 1. On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

2. On aluminum substrate P.C.B. with an 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 voltage of 4.0 volts.

Characteristic Curves
FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT FORM

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 CAPACITANCE PER LEG


Package Outline



Package Information

Qty: 5,000/Tape and reel