

## Single Phase 0.8Amp Glass passivated Bridge Rectifiers

### Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed  
250°C/10 seconds at terminals

### Mechanical Data

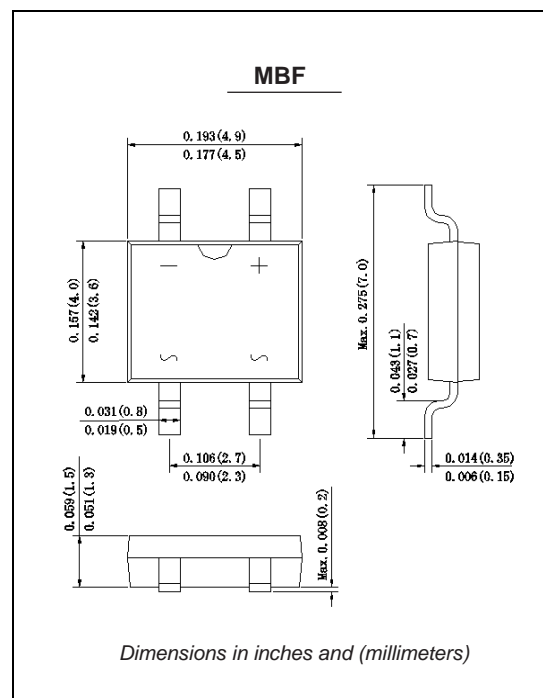
**Case:** Molded plastic body

**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity:** Polarity symbol marking on body

**Mounting Position:** Any

**Weight :** 0.004 ounce, 0.1 grams



### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_L=30^\circ C$ On glass-epoxy P.C.B (Note 1) On aluminum substrate (Note 2)	$I_{AV}$				0.8 1.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$				30.0				Amps
Maximum instantaneous forward voltage at 0.8A	$V_F$				1.0				Volts
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	$I_R$				5.0 500				$\mu A$
Typical junction capacitance (Note 3)	$C_J$				13.0				pF
Typical thermal resistance	$R_{qJA}$				65.0				$^\circ C/W$
Operating junction and storage temperature range	$T_J, T_{STG}$				-50 to +155				$^\circ C$

**Note:** 1. Mounted on glass epoxy PC board with 1.3\*1.3mm solder pad

2. Mounted on aluminum substrate PC board with 1.3\*1.3mm solder pad

3. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

# Ratings And Characteristic Curves

## MB05F THRU MB10F

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

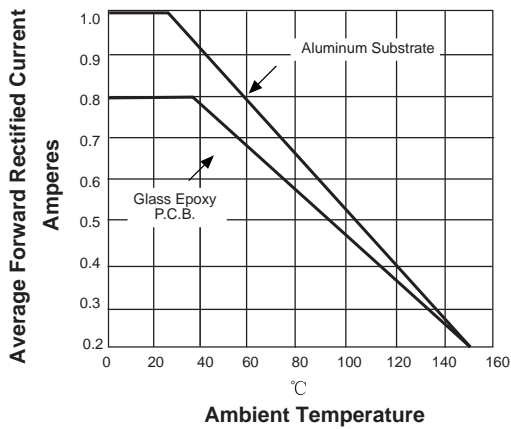


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

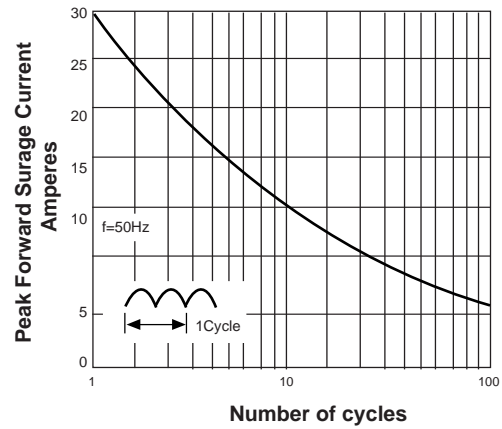


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

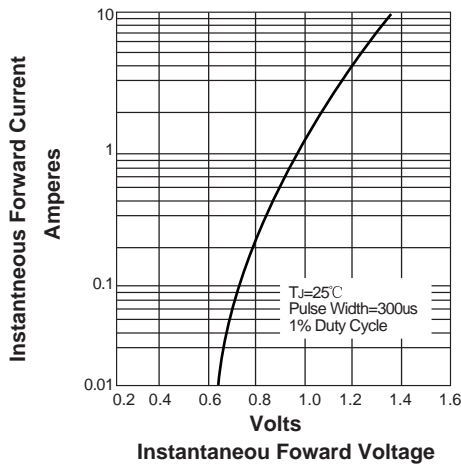


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

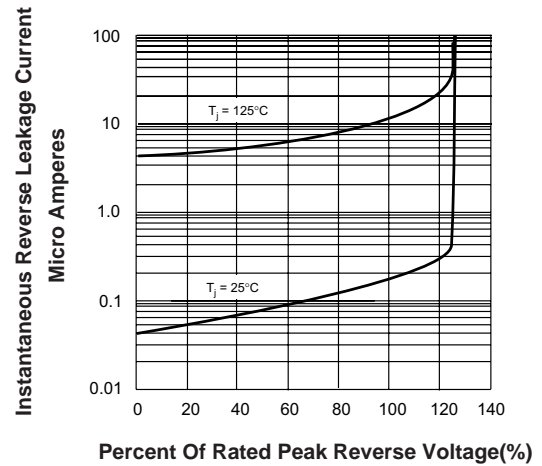
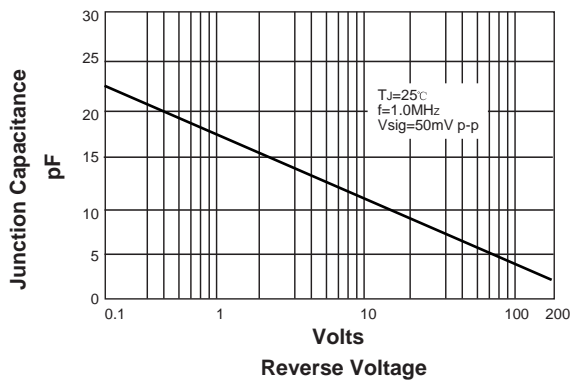


FIG. 5-TYPICAL JUNCTION CAPACITANCE



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