

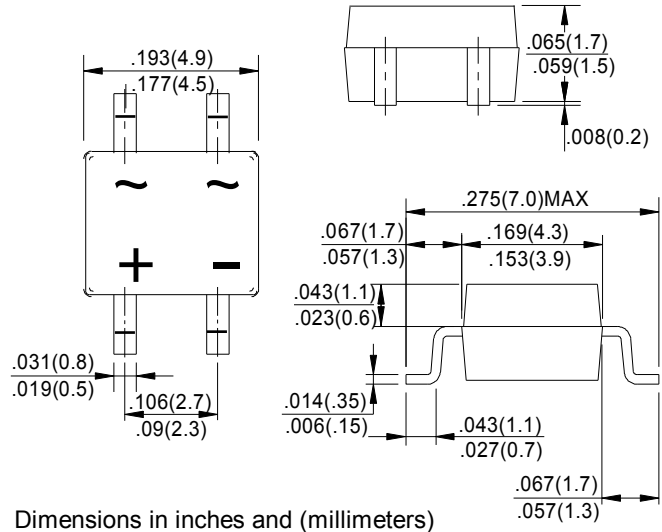
# MB05F THRU MB10F

SINGLE PHASE 0.8AMP GLASS PASSIVATED BRIDGE RECTIFIERS  
VOLTAGE RANGE 50 TO 1000 VOLTS

## MBF

### FEATURES

- Ideal for printed circuit board  
Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Rating to 1000V PRV
- High surge current capability
- Small size simple installation



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

TYPE NUMBER		MB05F	MB1F	MB2F	MB4F	MB6F	MB8S	MB10F	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =40 °C	I <sub>(AV)</sub>	0.8							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I <sub>FSM</sub>	35							A
Peak Forward Voltage at 0.8A DC	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	5.0 500							uA
Typical Junction Capacitance	C <sub>J</sub>	15							pF
Typical Thermal Resistance	R <sub>θJC</sub>	75							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

FIG.1 - DERATING CURVE OUTPUT RECTIFIED CURRENT FOR

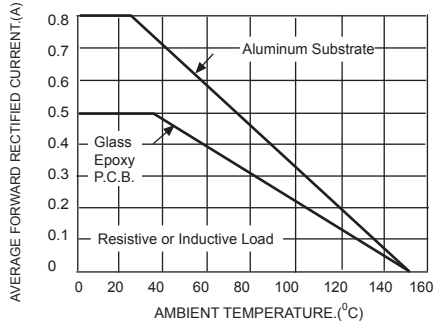


FIG.3 - TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

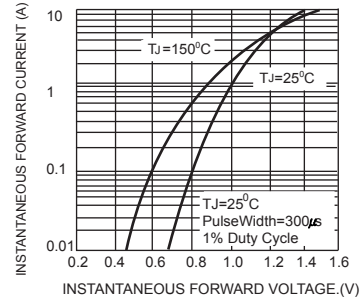


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

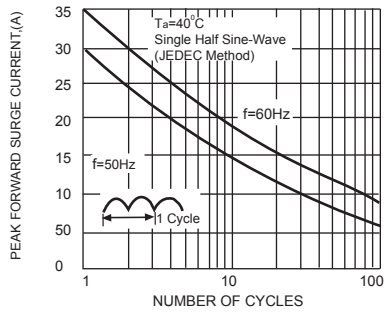


FIG.4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

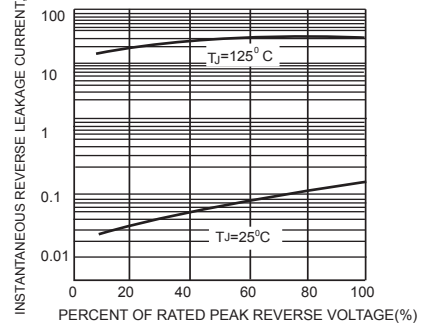


FIG.5-TYPICAL JUNCTION CAPACITANCE

