



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**MB05F
THRU
MB10F**

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 0.8 Ampere

FEATURES

- *High surge current capability
- * Ideal for printed circuit board
- * Glass passivated junction

MECHANICAL DATA

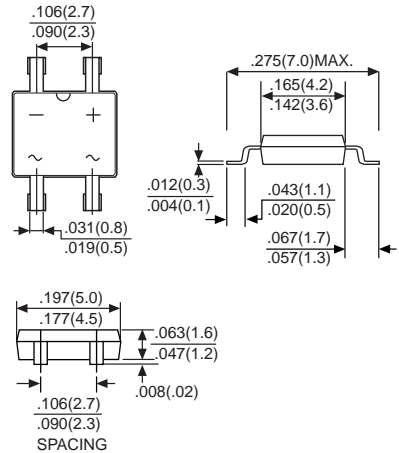
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 0.08 gram

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 current by 20%.



MBF



Dimensions in inches and (millimeters)

	SYMBOL	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Output Current at TA = 50 °C (Note 1)	I _O	0.8							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25							Amps
Maximum DC Forward Voltage Drop per Bridge Element at 0.8A DC	V _F	1.1							Volts
Maximum Reverse Current at rated DC Blocking Voltage per element	@TA = 25°C	5.0							μAmps
	@TA = 125°C	100							
Typical Junction Capacitance (Note 2)	C _J	13							pF
Typical Thermal Resistance (Note 3)	R _{θJA}	95							°C/W
Operating and Storage Temperature Range	T _{J,TSTG}	-50 to +150							°C

NOTES: 1. Mounted on P.C. board with 4x(5x5mm²) copper pad.
2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.
3. Thermal resistance junction to ambient.

RATING AND CHARACTERISTIC CURVES (MB05F THRU MB10F)

FIG. 1 - MAXIMUM NON-REPETITIVE SURGE CURRENT

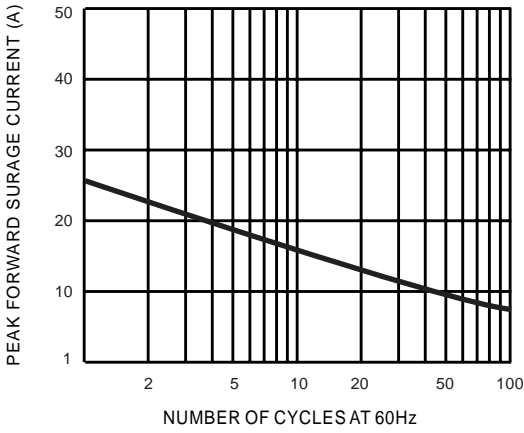


FIG. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

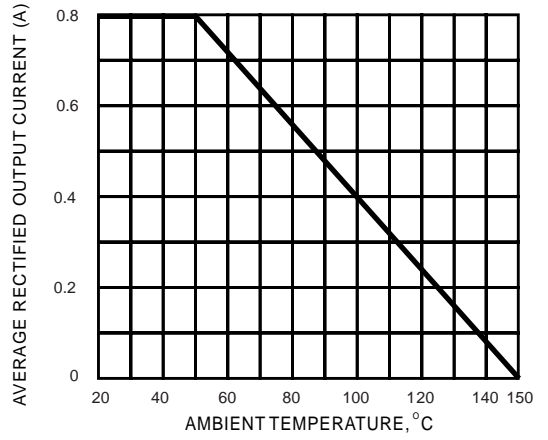


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

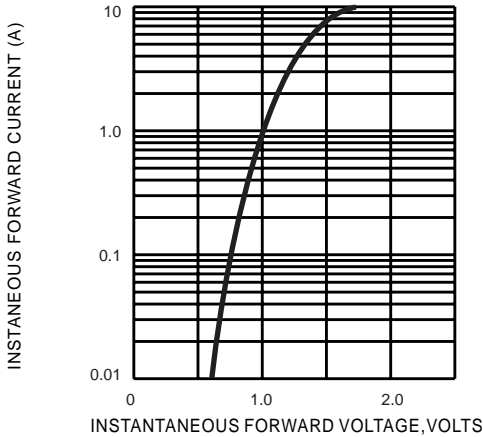


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

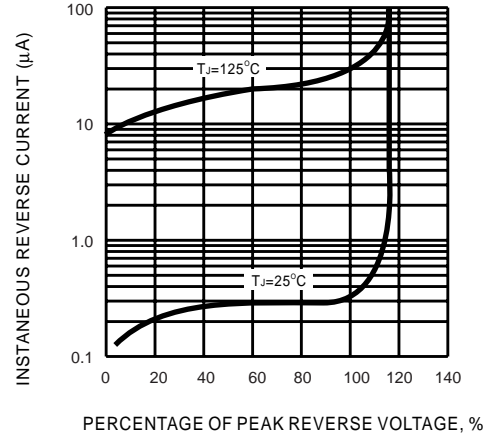
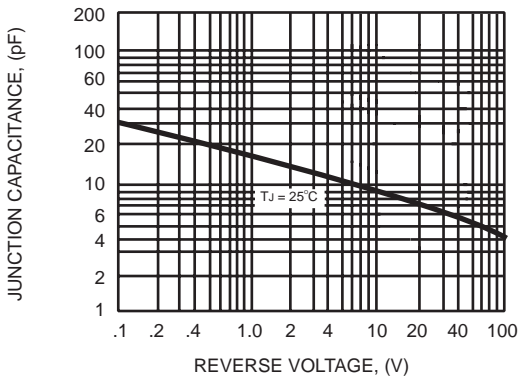


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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