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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

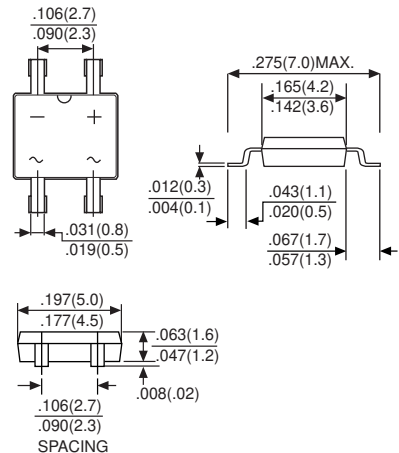
Ratings at 25 °C ambient temperature unless otherwise specified.

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		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 50 °C (Note 1)		IO	0.8							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	25							Amps
Maximum DC Forward Voltage Drop per Bridge Element at 0.8A DC		VF	1.1							Volts
Maximum Reverse Current at rated	@TA = 25°C	IR	5.0							μAmps
DC Blocking Voltage per element	@TA = 125°C		100							
Typical Junction Capacitance (Note 2)		CJ	13							pF
Typical Thermal Resistance (Note 3)		RθJA	95							°C/W
Operating and Storage Temperature Range		TJ,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

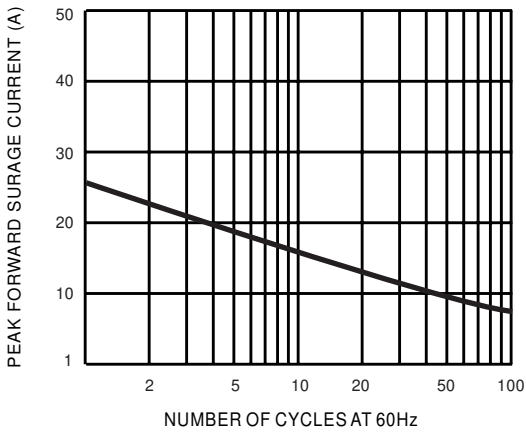


FIG. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

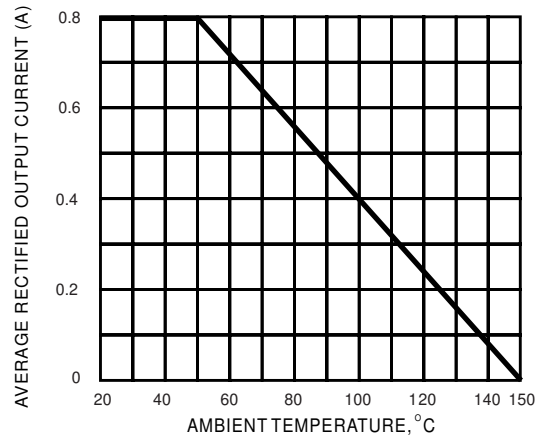


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

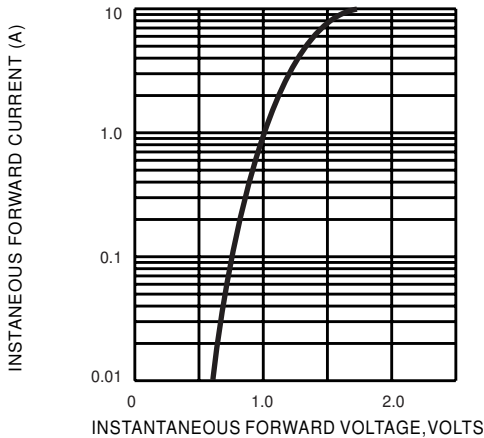


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

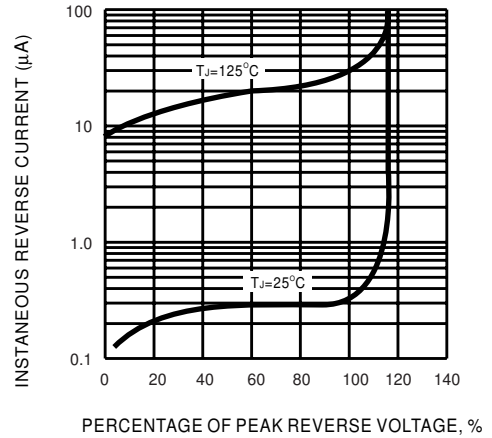
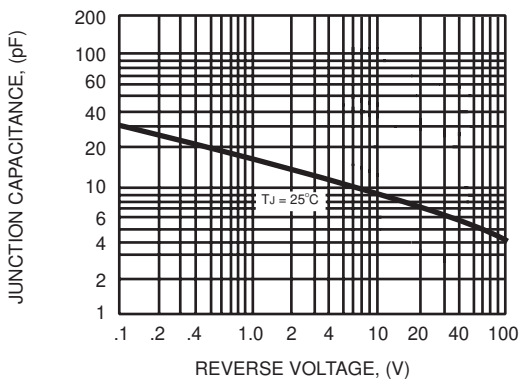


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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