

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

MB05M THRU MB10M

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE MINI SURFACE MOUNT BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 0.8 Ampere

FEATURES

- * Surge overload rating 30 Amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction
- * Glass passivated junction

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant

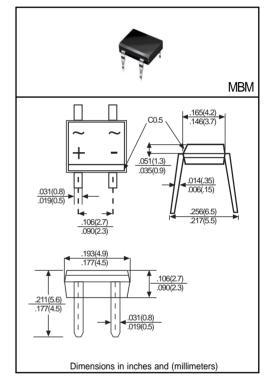
* Terminals: MIL-STD-202E, Method 208 guaranteed

* Polarity: Symbols molded or marked on body

* Mounting position: Any * Weight: 0.13 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%.



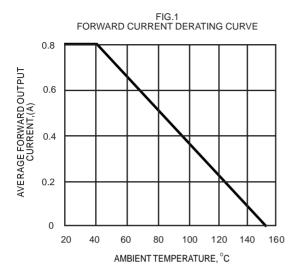
		SYMBOL	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 40 °C (Note 1)		lo	0.8						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30						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	lr l	10							μAmps
DC Blocking Voltage per element	@TA = 125°C	IK.	500							
Typical Junction Capacitance (Note 2)		Cı	15						pF	
Typical Thermal Resistance (Note 3)		Rejc	75							°C/W
Operating and Storage Temperature Range		ТЈ,ТЅТС	-50 to + 150							ိင

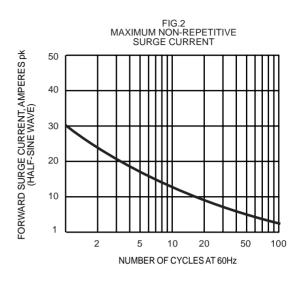
NOTES: 1. Mounted on P.C. board.

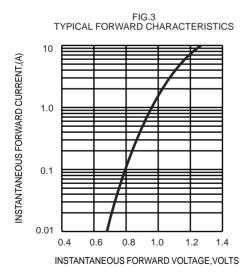
- 2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case.

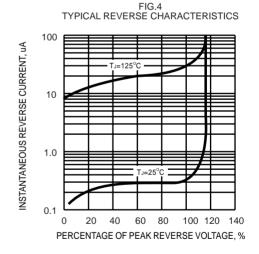
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RATING AND CHARACTERISTIC CURVES (MB05M THRU MB10M)









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