

**MB05F THRU MB10F SINGLE PHASE
0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER**

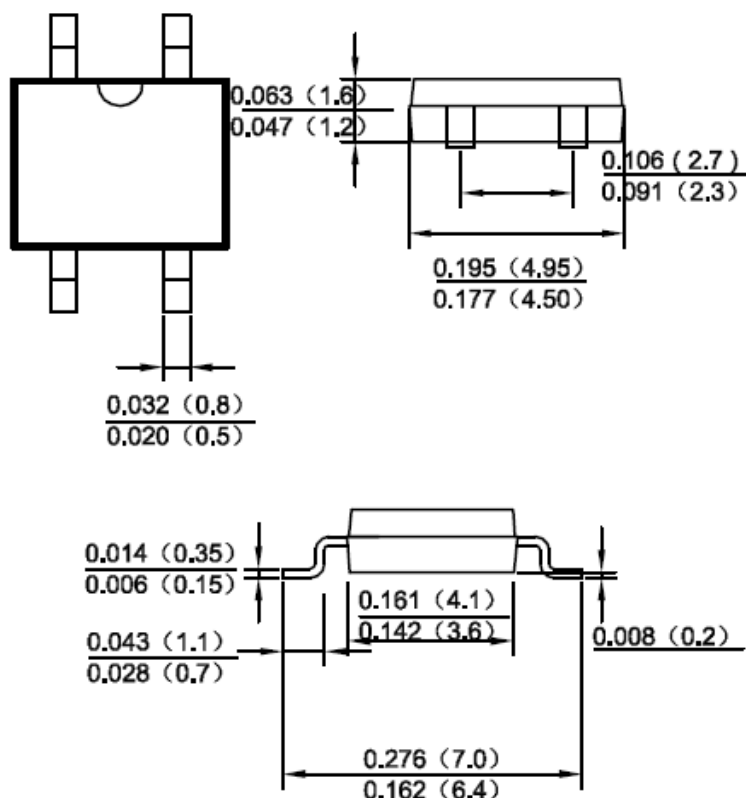
Features:

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

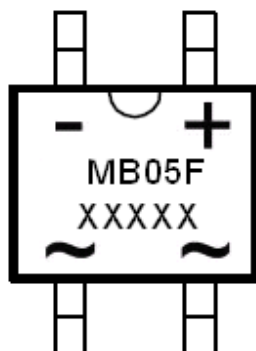
Mechanical Data:

- Case: MB-F, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Ordering Information: 5000pcs/reel
- Lead Free: For RoHS / Lead Free Version

Mechanical Dimensions: In Inches/ mm



MBF

Marking Diagram:


Where XXXXX is YYWWL

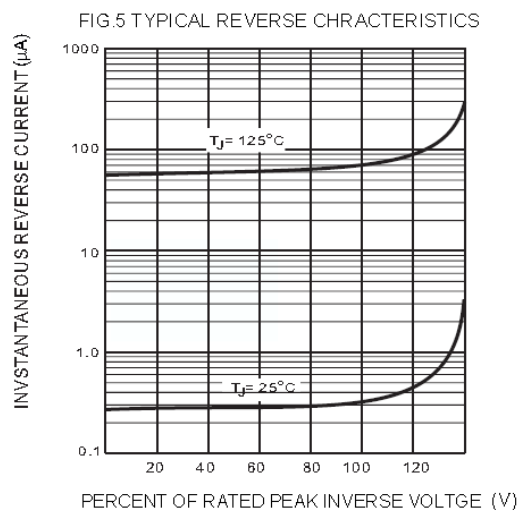
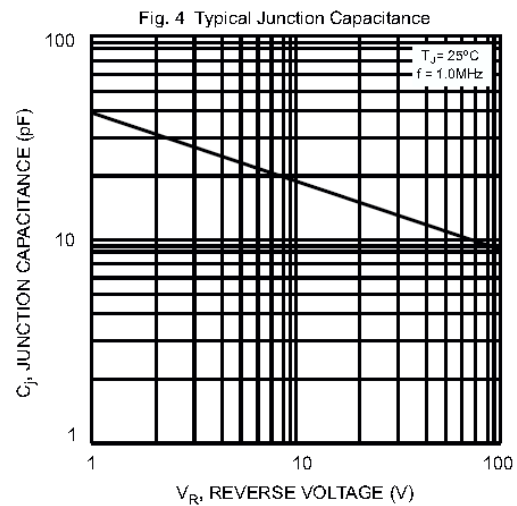
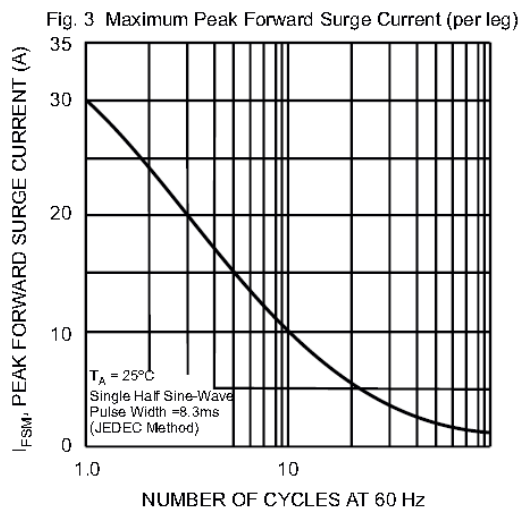
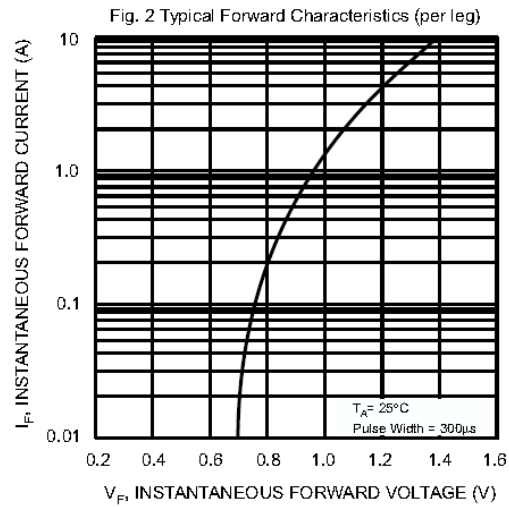
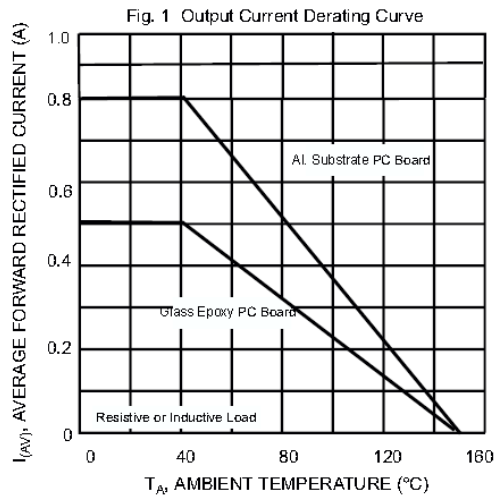
MB05F = Part Name
 YY = Year
 WW = Week
 L = Lot Number

Cautions: Molding resin
 Epoxy resin UL:94V-0

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Unit
Device Marking	Marking	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	-
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	480	700	V
Average Rectified Output Current (Note1)@T _A =40℃ (Note 2)@T _A =40℃	I _O	0.5 0.8							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A
Forward Voltage per element @I _F =0.8A	V _{FM}	1.1							V
Peak Reverse Current @T _A = 25℃ At Rated DC Blocking Voltage @T _A = 125℃	I _R	5 500							μA
Typical Junction Capacitance (Note 3)	C _j	13							pF
Typical Thermal Resistance per leg	R _{θJA}	60							℃/W
	R _{θJL}	16							
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55+150							℃

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





MB05F THRU MB10F

Technical Data
Data Sheet N1456, Rev. A

Green Products

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