



MB05F(GW)-MB10F(GW) SURFACE MOUNT BRIDGE RECTIFIERS

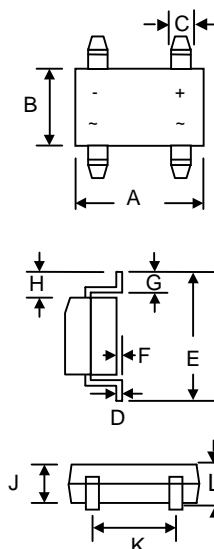
Features

- 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-O
- UL Recognized File # E476623

Mechanical Data

- Case: MBF(GW), Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.134 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version,**

MB-F



Dim	Min	Max
A	4.65	4.95
B	3.60	4.10
C	0.60	0.80
D	0.15	0.35
E	6.40	7.00
F	—	0.20
G	0.50	1.10
H	1.30	1.70
J	1.20	1.40
K	2.30	2.70
L	—	1.65
All Dimensions in mm		

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%.

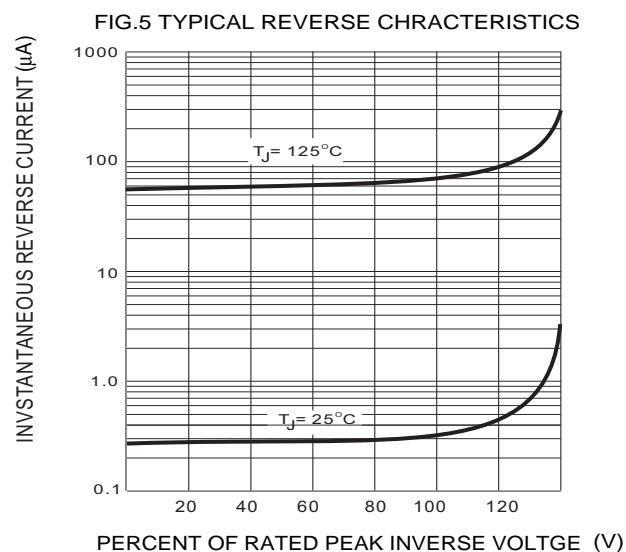
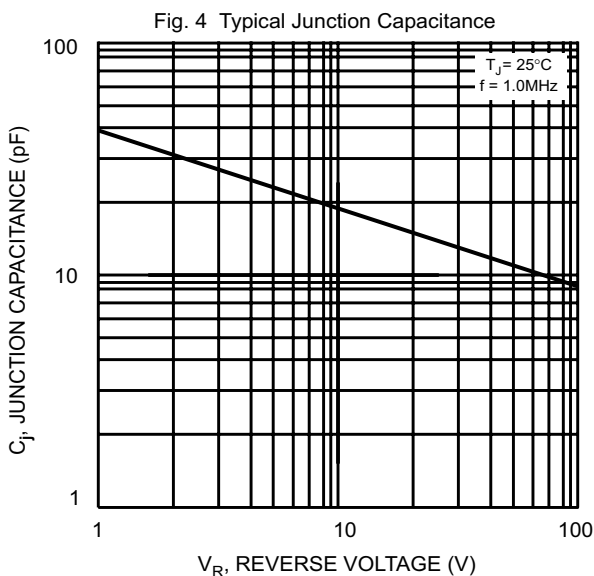
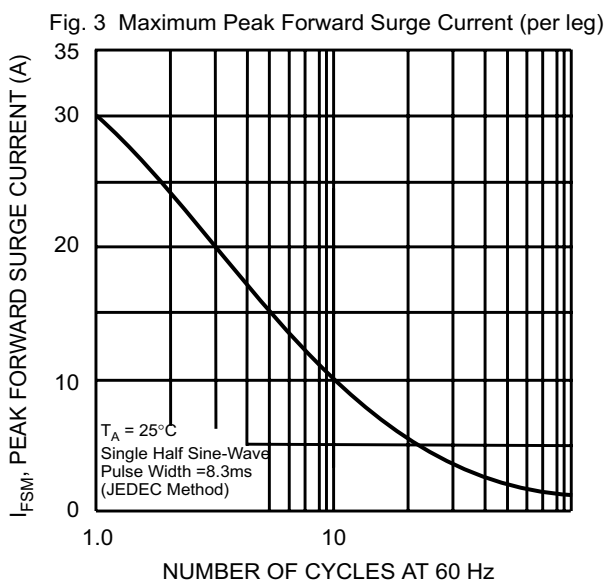
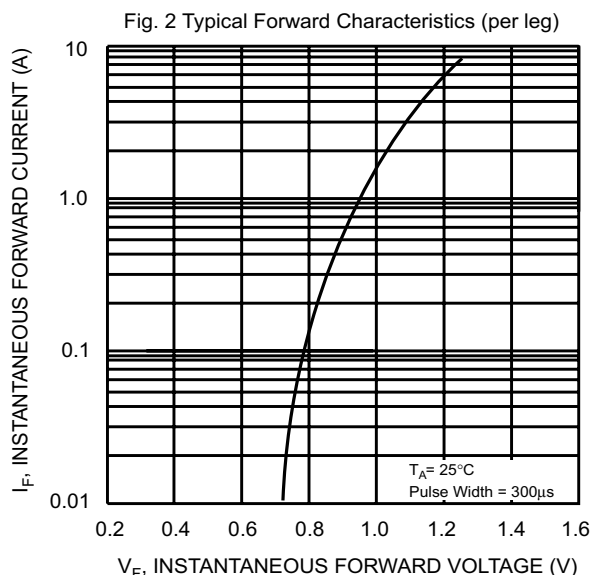
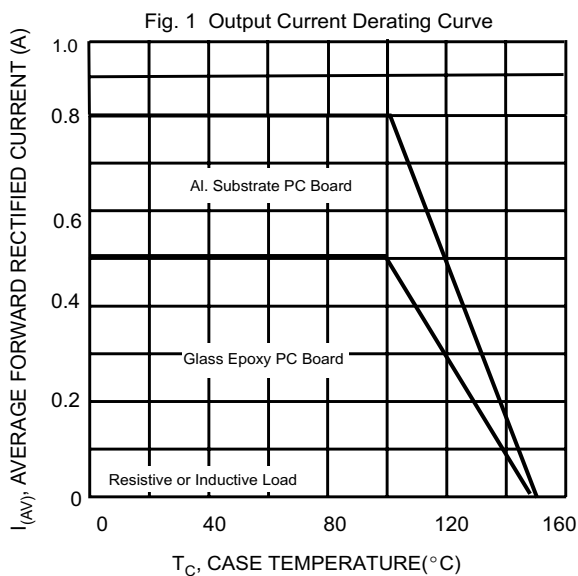
TYPE NUMBER	SYMBOL	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_c=100^\circ\text{C}$ (Note 2)@ $T_c=100^\circ\text{C}$	$I_F(AV)$	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
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	3.735							A^2s
Forward Voltage per element @ $I_F=0.5\text{A}$ @ $I_F=0.8\text{A}$	V_{FM}	0.95 1.0							V
Peak Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	5.0 200							μA
Typical Junction Capacitance per leg (Note3)	C_J	13							pF
Typical Thermal Resistance per leg	$R_{\theta JA}$	60							$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	16							
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150							$^\circ\text{C}$

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



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



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