



MB05F(GW)-MB10F(GW)

SURFACE MOUNT BRIDGE RECTIFIERS

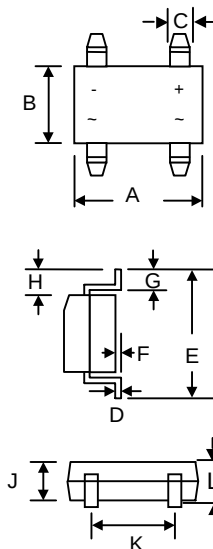
Features

- 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-0
- UL Recognized File # E476623

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
- 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 Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
	V _{RWM}								
	V _{DC}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum average forward rectified current @T _C =100℃	I _F (AV)	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	35							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	5.083							A ² s
Forward Voltage per element @I _F =0.5A @I _F =1.0A	V _{FM}	0.95 1.0							V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	I _R	5.0 200							uA
Typical Junction Capacitance per leg (Note 1)	C _J	25							pF
Typical Thermal Resistance per leg (Note 2)	R _{θJA}	60							℃/W
	R _{θJL}	16							
Operating and Storage Temperature Range	T _J , T _{STG}	-55to+150							℃

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B
with 0.5×0.5"(13×13mm)copper pads.



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Characteristic Curves (T_A=25 °C unless otherwise noted)

