



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

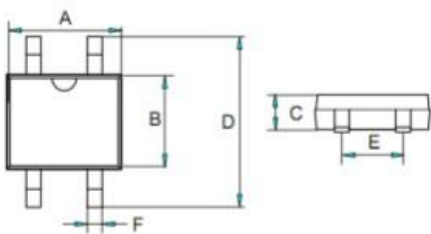
- Case: MB-F, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,

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%.

MBF					
					
DIM	INC HES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.18	0.2	4.5	5.1	
B	0.14	0.16	3.6	4	
C	0.05	0.06	1.2	1.6	
D	0.24	0.3	6	7.5	
E	0.08	0.12	2	3	
F	0.02	0.04	0.4	1	

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
Average Rectified Output Current (Note 1)@Tc=100℃	IF(AV)	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	3.735							A ² s
Forward Voltage per element @IF=1.0A	VFM	1.1							V
Peak Reverse Current @TA=25℃ At Rated DC Blocking Voltage @TA=125℃	IR	5.0 200							uA
Typical Junction Capacitance per leg (Note3)	CJ	13							pF
Typical Thermal Resistance per leg	RθJA	60							℃/W
	RθJL	16							
Operating and Storage Temperature Range	TJ,TSTG	-55to+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.



Fig. 1 Output Current Derating Curve

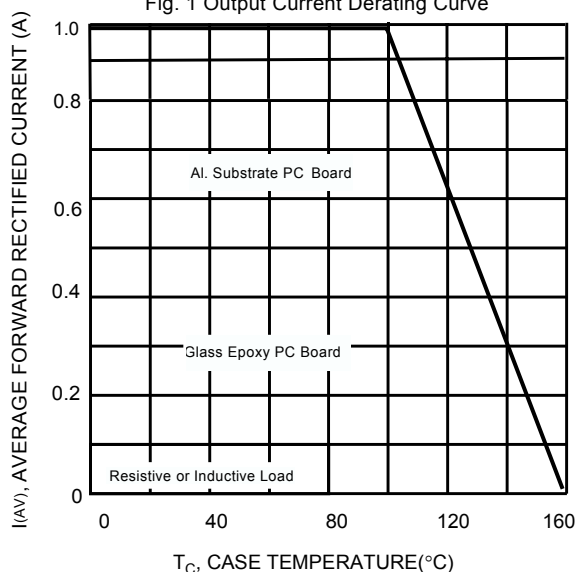


Fig. 2 Typical Forward Characteristics (per leg)

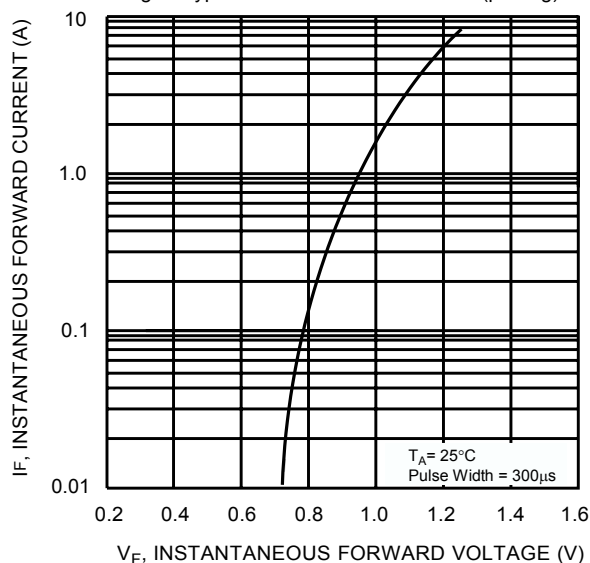


Fig. 3 Maximum Peak Forward Surge Current (per leg)

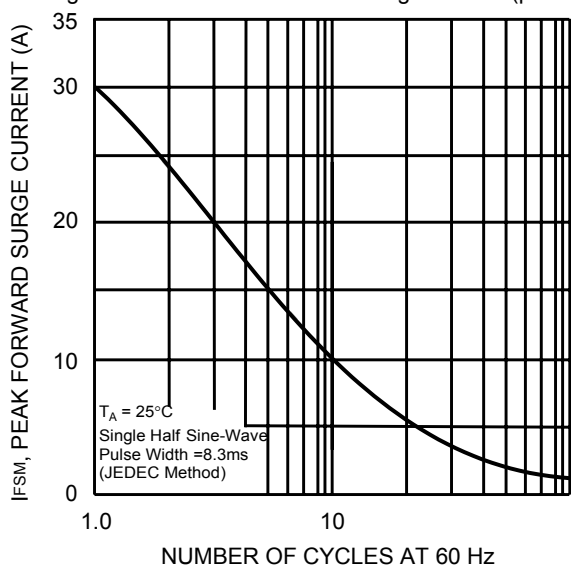


Fig. 4 Typical Junction Capacitance

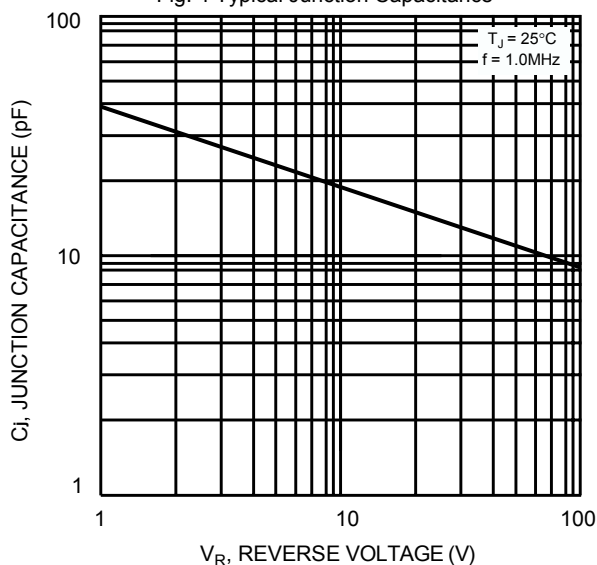
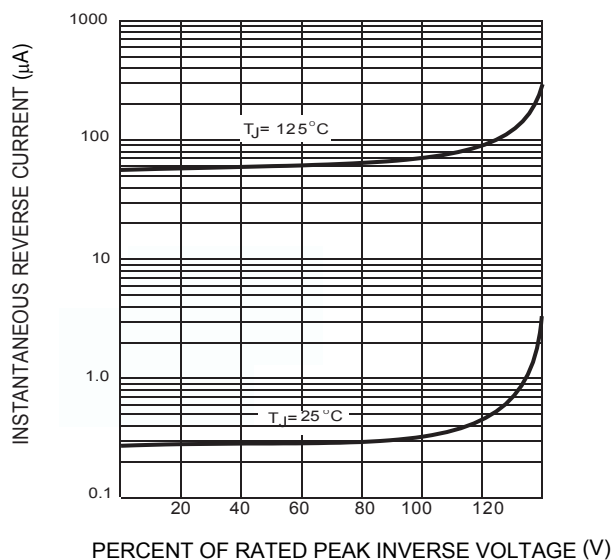
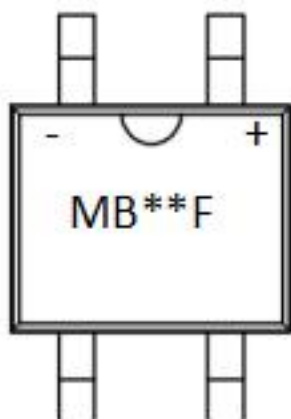


FIG.5 TYPICAL REVERSE CHARACTERISTICS





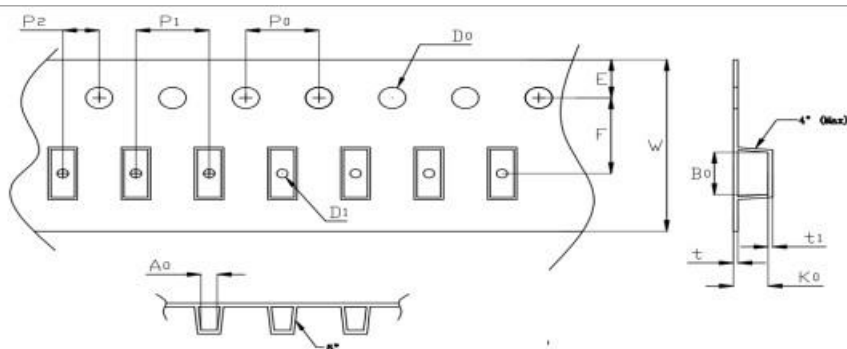
MARKING INFORMATION



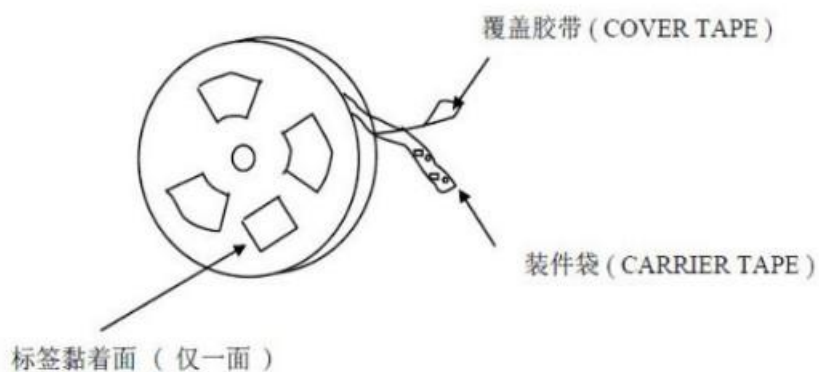
MB**F = Marking Code

PACKING REQUIRMENTS

· PS black anti-static carrier tape packing



Specifications	Carrier tape type	A0	B0	K0	P0	W	t	Explain
MBF	Anti-static	5.2±0.10	7.12±0.10	1.72±0.10	4.00±0.10	12.0±0.10	0.23±0.05	



DEVICE TYPE	Tape width	13"Reel		
		Q'TY/REEL (pcs)	BOX/CARTOON	Q'TY/REEL (pcs)
MBF	12mm	5000	20	100000



注意事项

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知

NOTE

1. Shenzhen Huatianwei Electronics co., Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Shenzhen Huatianwei Electronics co., Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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