

SINGLE PHASE 0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

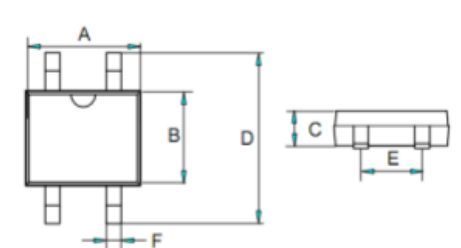
- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

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%.



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	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)@ $T_c=100^\circ C$ (Note 2)@ $T_c=100^\circ C$	$I_F(AV)$	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 ($t < 8.3ms$)	I^2t	3.735						A^2s	
Forward Voltage per element @ $I_F=0.5A$ @ $I_F=0.8A$	V_{FM}	0.95 1.0						V	
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	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						$^\circ C/W$	
	$R_{\theta JL}$	16							
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150						$^\circ C$	

- 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

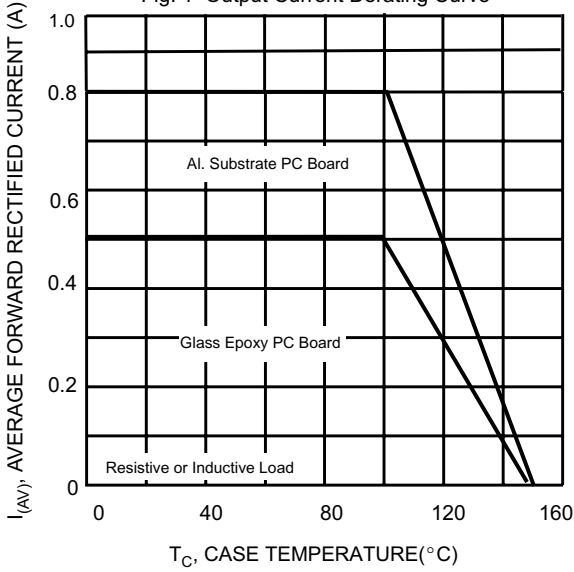


Fig. 2 Typical Forward Characteristics (per leg)

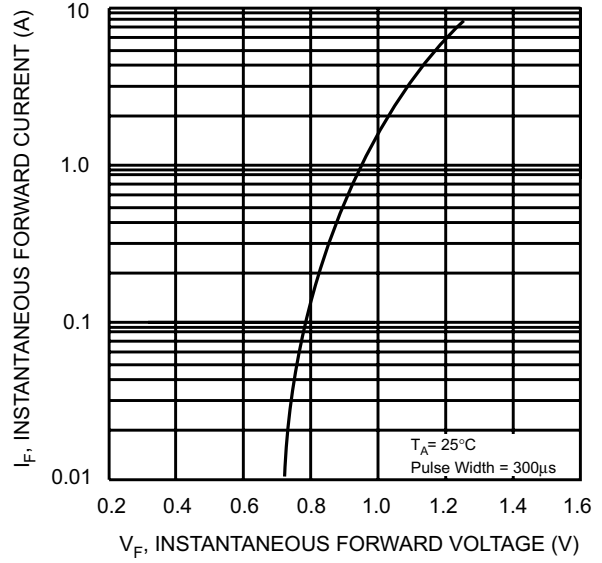


Fig. 3 Maximum Peak Forward Surge Current (per leg)

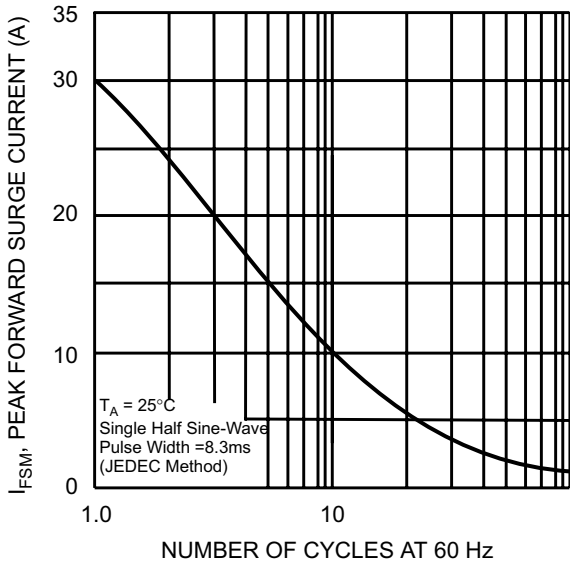


Fig. 4 Typical Junction Capacitance

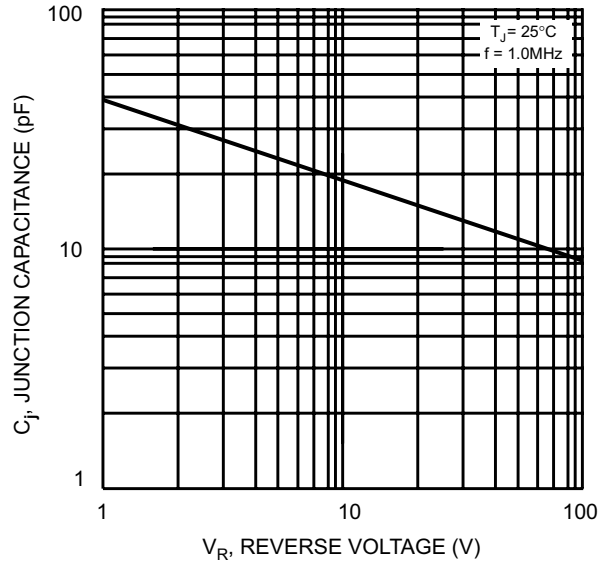
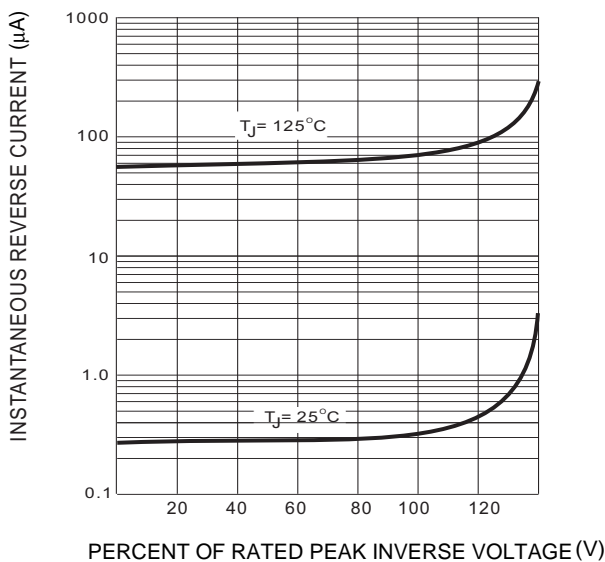
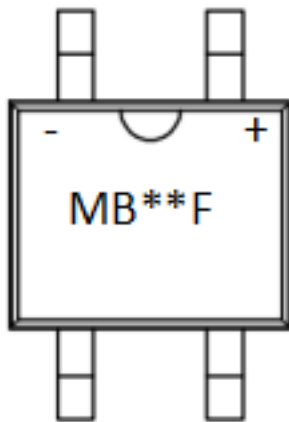


FIG.5 TYPICAL REVERSE CHARACTERISTICS





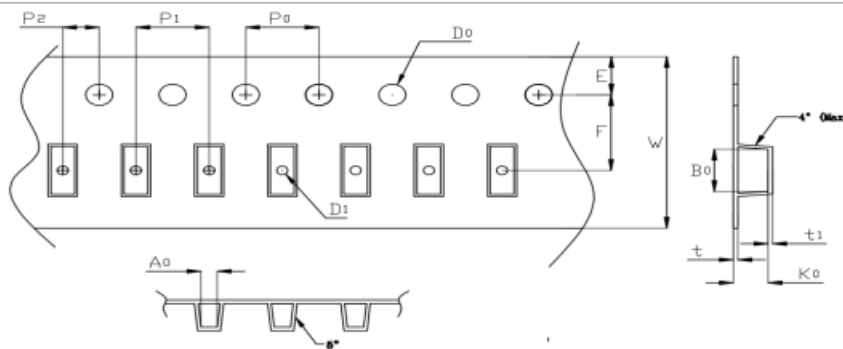
MARKING INFORMATION



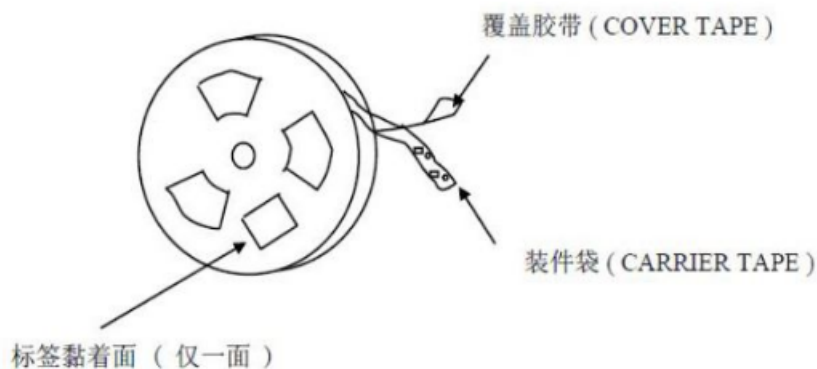
MB**F = Marking Code

PACKING REQUIRMENTS

. PS black anti-static carrier tape packing



Specificati ons	Carrier tape type	Ao	Bo	Ko	Po	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/CAR TOON	Q'TY/REEL (pcs)
MBF	12mm	5000	20	100000

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