

MBF Plastic-Encapsulate Bridge Rectifier

Features

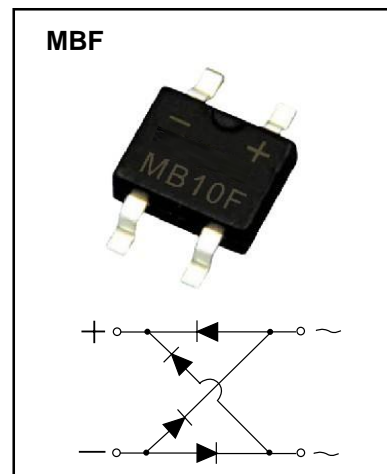
- I_o 0.8A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip
- Polarity: Color band denotes cathode

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- MBXXF
- X : From 05 To 10



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	MB						
				05F	1F	2F	4F	6F	8F	10F
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V		35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I_o	A	60Hz sine wave, R-load, $T_a=25^\circ\text{C}$	On alumina substrate	0.8					
				On glass-epoxi substrate	0.5					
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$	30						
Current Squared Time	I^2t	A^2S	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$. Rating of per diode	3.7						
Storage Temperature	T_{stg}	$^\circ\text{C}$		-55 ~+150						
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~+150						

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=0.4\text{A}$, Pulse measurement, Rating of per diode	1.0
Peak Reverse Current	I_{RRM1}	μA	Maximum DC reverse current $T_a=25^\circ\text{C}$	5.0
	I_{RRM2}	μA	at rated DC blocking voltage $T_a=125^\circ\text{C}$	500
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient, On alumina substrate	75
			Between junction and ambient, On glass-epoxi substrate	134
	$R_{\theta J-L}$		Between junction and lead	20
Typical junction capacitance per diode	C_j	pF	Measured at 1.0MHz and applied reverse voltage of 4.0 volts.	13

Typical Characteristics

FIG1:Io-Ta Curve

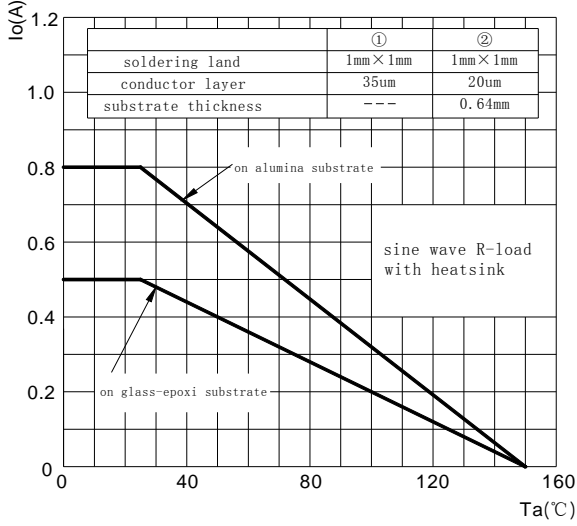


FIG2:Surge Forward Current Capadility

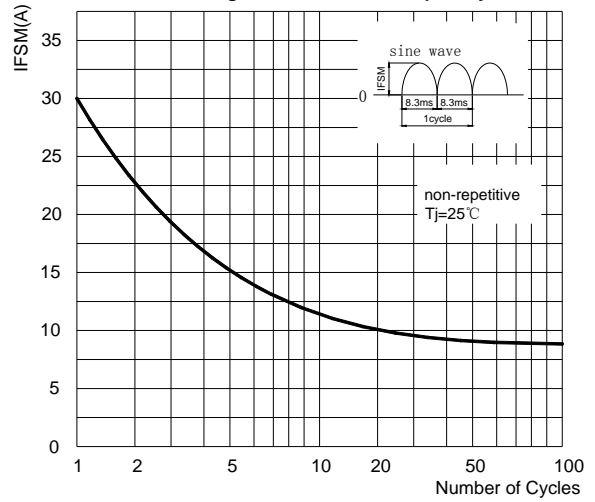


FIG3: Forward Voltage

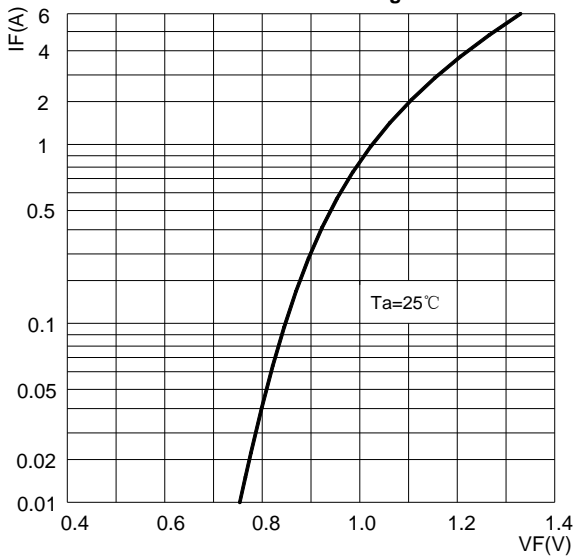


FIG4:Typical Reverse Characteristics

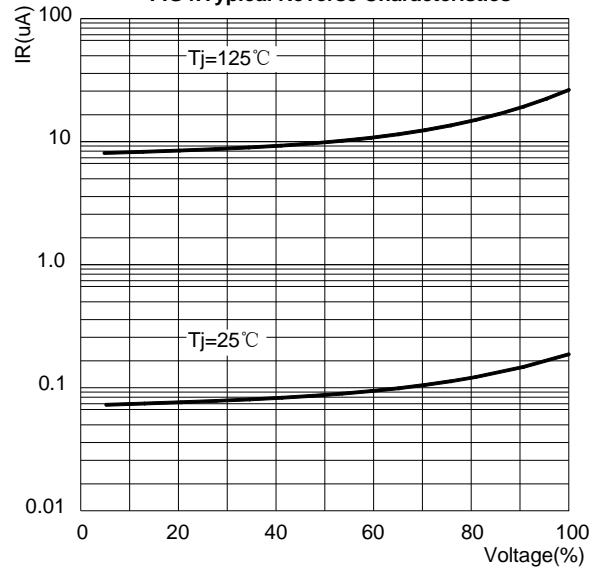
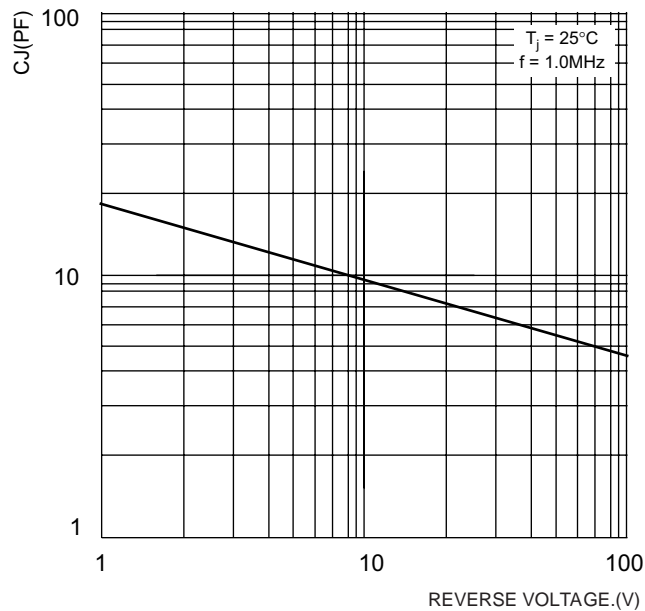
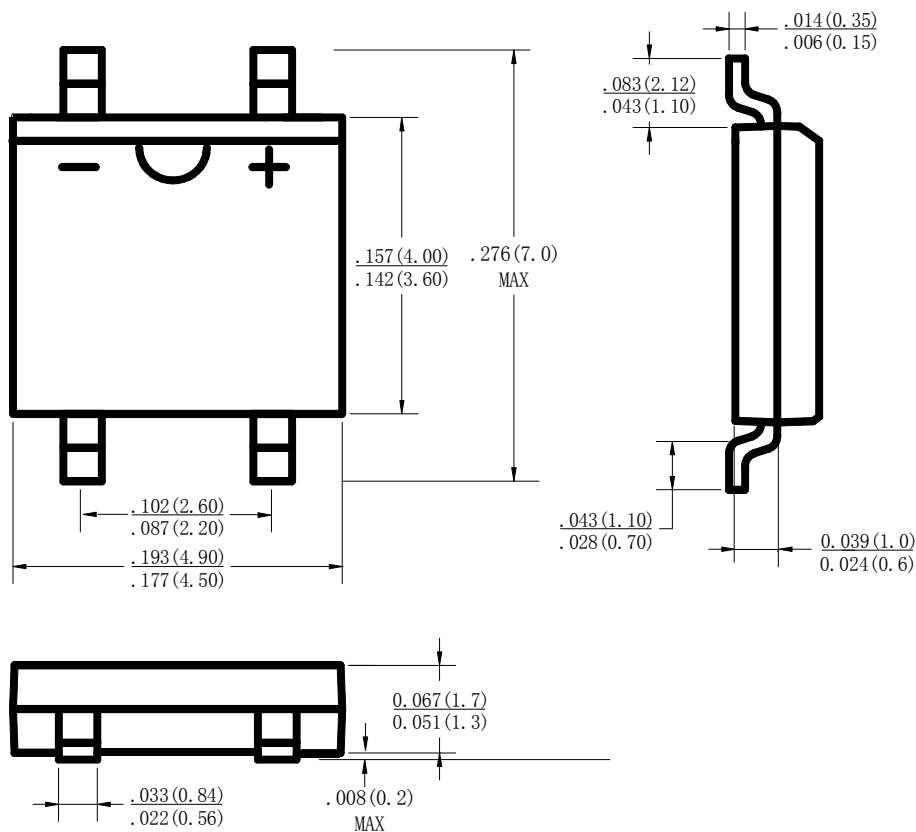


FIG5:Typical Junction Capacitance Per Diode

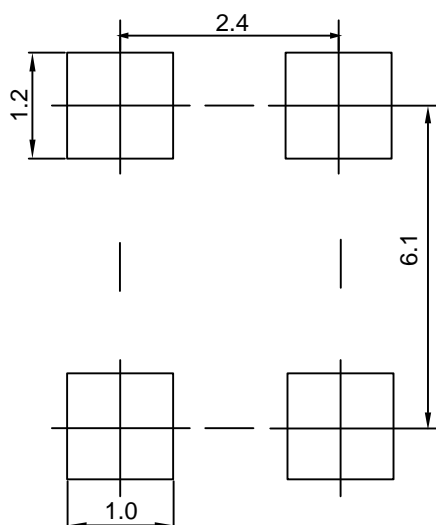


MBF Package Outline Dimensions



Dimensions in inches and (millimeters)

MBF Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

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Reel Taping Specifications For Surface Mount Devices-MBF

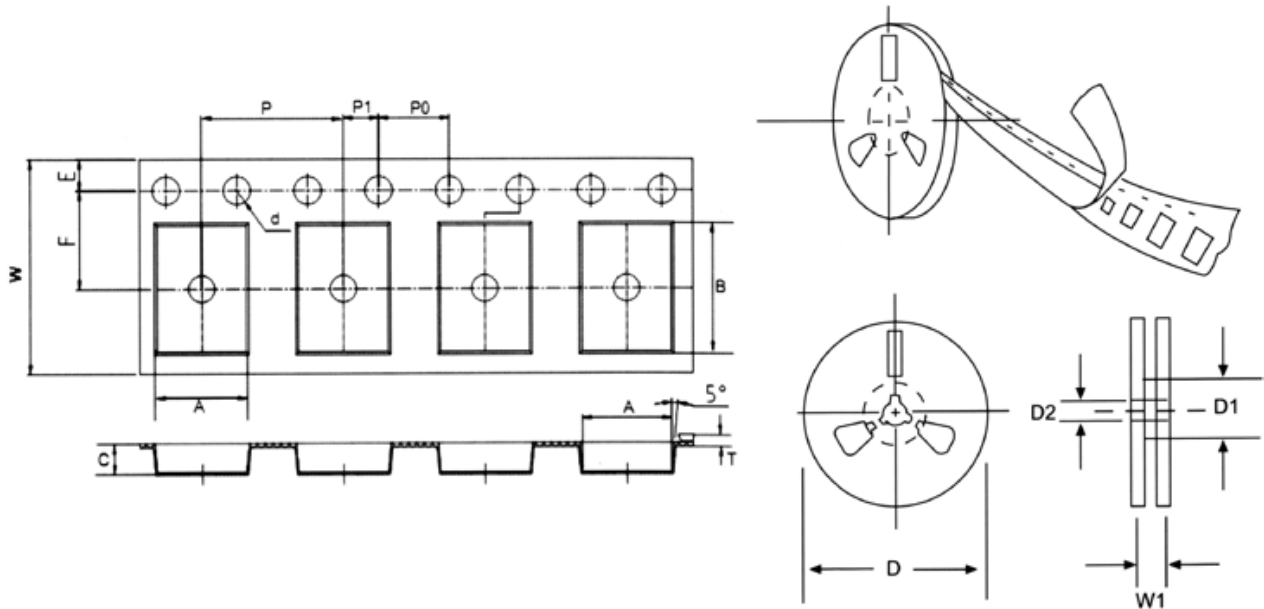


FIG:CONFIGURATION OF AXIAL TAPING

ITEM	SYMBOL	MBF mm(inch)
Carrier width	A	5.02+0.1(0.198+0.004)
Carrier length	B	7.15+0.1(0.281+0.004)
Carrier depth	C	1.65+0.1(0.074+0.004)
Sprocket hole	d	1.50+0.1/-0(0.059+0.004/-0)
Reel outside diameter	D	330/281+2.0(13/11+0.279)
Reel inner diameter	D1	8.0+0.2(0.315+0.008)
Feed hole diameter	D2	13+0.5(0.512+0.020)
Sprocket hole position	E	1.75+0.1(0.069+0.004)
Punch hole position	F	5.50+0.1(0.217+0.002)
Punch hole pitch	P	8.0+0.1(0.315+0.004)
Sprocket hole pitch	P0	4.0+0.1(0.157+0.004)
Embossment center	P1	2.0+0.1(0.079+0.004)
Totall tape thickness	T	0.20-0.70(0.008-0.028)
Tape width	W	12.0+0.3/-0.1(0.472+0.004)
Reel width	W1	16.8+2.0(0.661+0.079)

NOTE:Devices are packde in accordance with EIA standard RS-481-A and specification given above.

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