



Bridge Rectifiers

Reverse Voltage 600V-1000v

Forward current-1A

Features

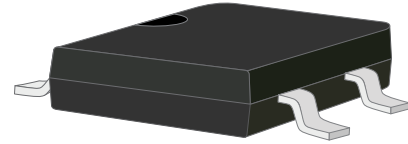
Glass passivated chip

High surge current capability

Ideal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability



Mechanical Data

Package: MBF

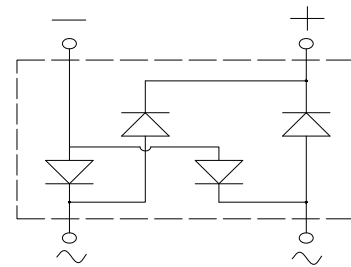
Terminals: Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant



Maximum Ratings (Ta=25°C Unless otherwise specified)

Type Number	SYMBOL	MB6F	MB8F	MB10F	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Maximum Average Forward Rectified Current at $T_L = 100^\circ\text{C}$	$I_{O(AV)}$	1.0			A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load (JEDEC Method) on rated	IFSM	35.0			A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$		70.0			
Current squared time @1ms ≤ t ≤ 8.3ms $T_j=25^\circ\text{C}$, Rating of per diode	I^2t	5.1			A ² S
Maximum Forward Voltage at 1.0A DC	V_{FM}	1.1			V
Maximum Reverse Current $T_A = 25^\circ\text{C}$	IR	5			uA
at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$		100			
Typical Junction Capacitance	CJ	17			pF
Typical Thermal Resistance Between junction and ambient	R_{QJa}	70.0			°C/W
Operating Junction Temperature Range	T_J	-55to+150			°C
Storage Temperature Range	T_{STG}	-55to+150			°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

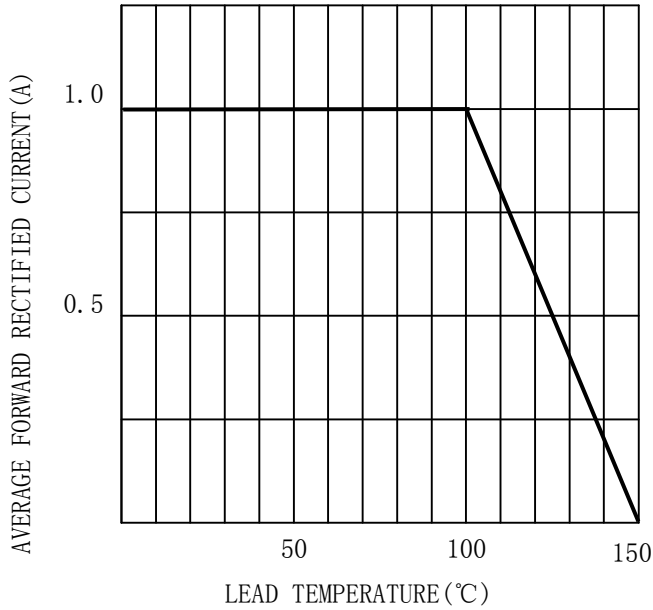


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

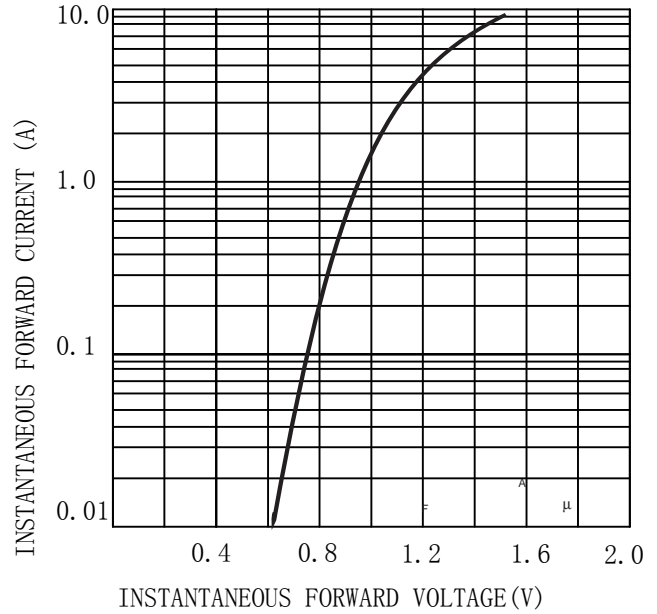


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

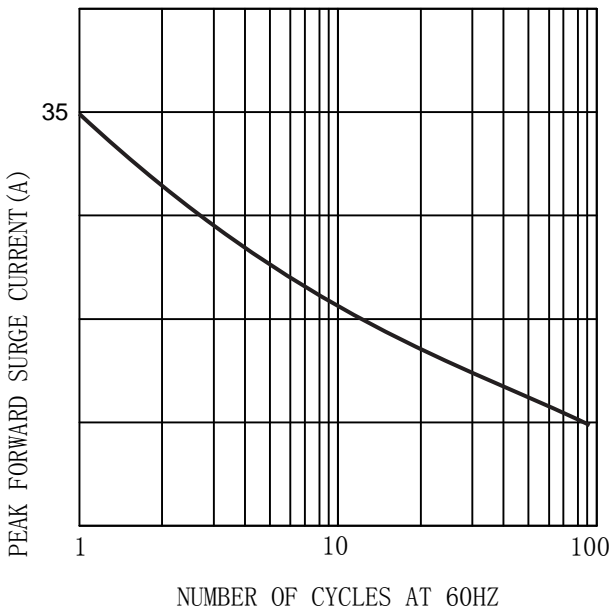
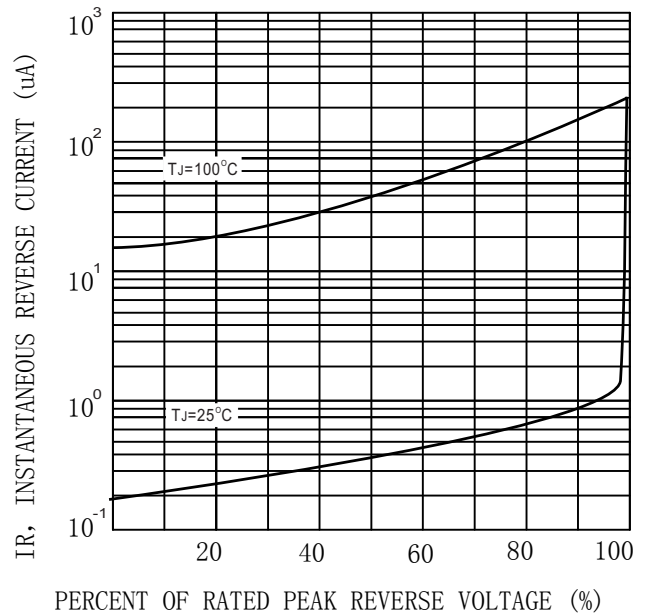
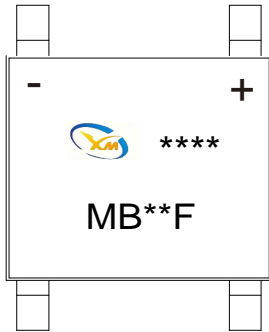


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



= Logo



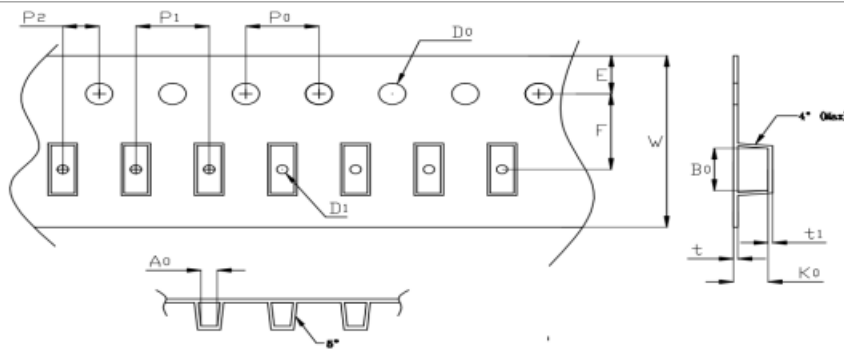
= Date Code Marking

MB**F = Marking Code

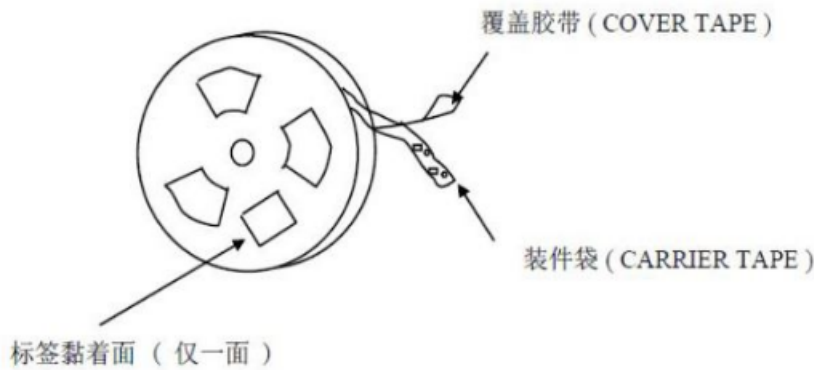
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



Specifications	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	

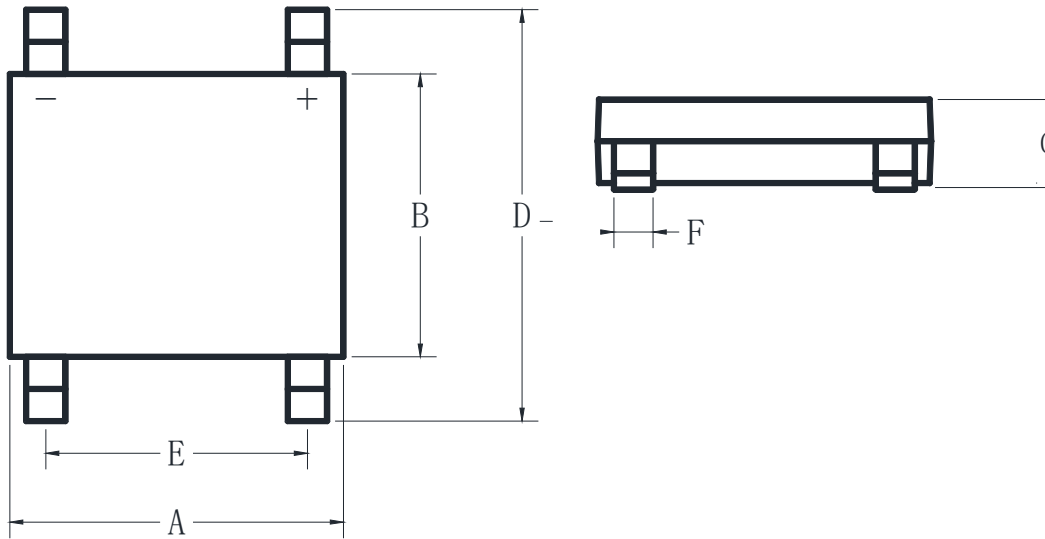


DEVICE TYPE	Tape width	13" Reel		
		Q'TY/REEL (pcs)	BOX/CARTON	Q'TY/REEL (pcs)
MBF	12mm	5000	20	100000



Outline Dimensions

MBF



MBF				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.18	0.20	4.5	5.1
B	0.14	0.16	3.6	4
C	0.05	0.11	1.2	1.6
D	0.24	0.30	6	7.5
E	0.08	0.12	2	3
F	0.02	0.04	0.4	1



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