MB1F-10~MB10F-10

Surface Mount Glass Passivated Bridge Rectifiers

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- High Surge Current Capability
- Designed for Surface Mount Application

MBF

1.Input Pin(~) 2.Input Pin(~)
3.Output Anode(+) 4.Output Cathode (-)

Marking Code:

MB1F-10: 10M1
MB2F-10: 10M2
MB4F-10: 10M4
MB6F-10: 10M6
MB8F-10: 10M8
MB10F-10: 10M10

Maximum Ratings and Electrical Characteristics

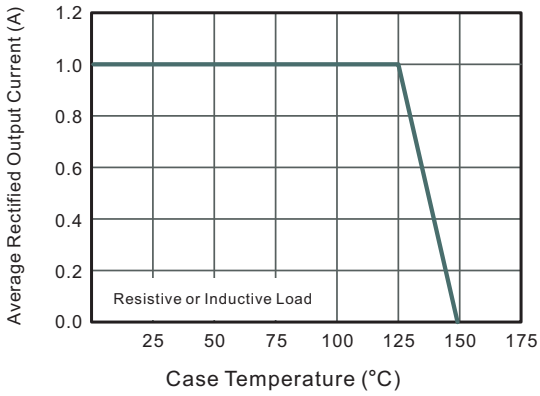
Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

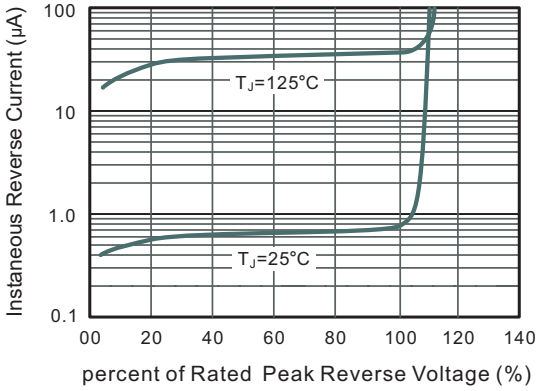
Parameter	Symbols	MB1F-10	MB2F-10	MB4F-10	MB6F-10	MB8F-10	MB10F-10	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current at T_C =125°C	I_O	1.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	35						A
Maximum Instantaneous Forward Voltage at 1 A	V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A = 25 °C T_A = 125 °C	I_R	 5 40						μA
Typical Junction Capacitance Note1	C_j	13						pF
Typical Thermal Resistance Note2	$R_{\theta JA}$ $R_{\theta JC}$	80 25						°C/W
Junction Temperature	T_J	150						°C
Storage Temperature Range	T_{STG}	-55 to +150						°C

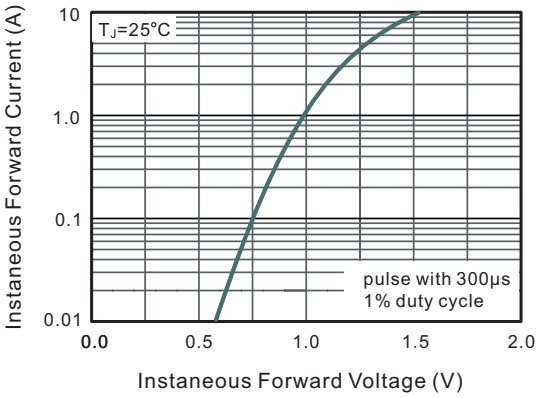
Note:

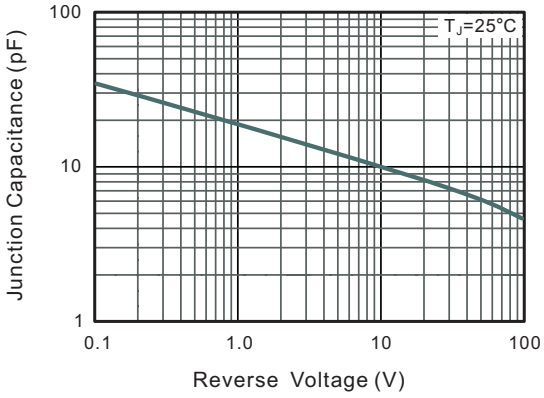
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. Mounted on glass epoxy PC board with 4×1.5"×1.5"（3.81×3.81 cm）copper pad.

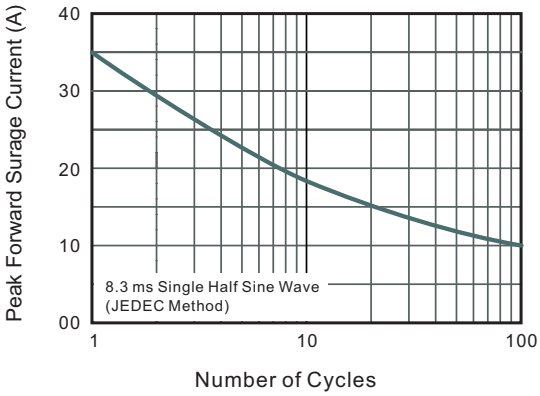
Typical Characteristic Curves



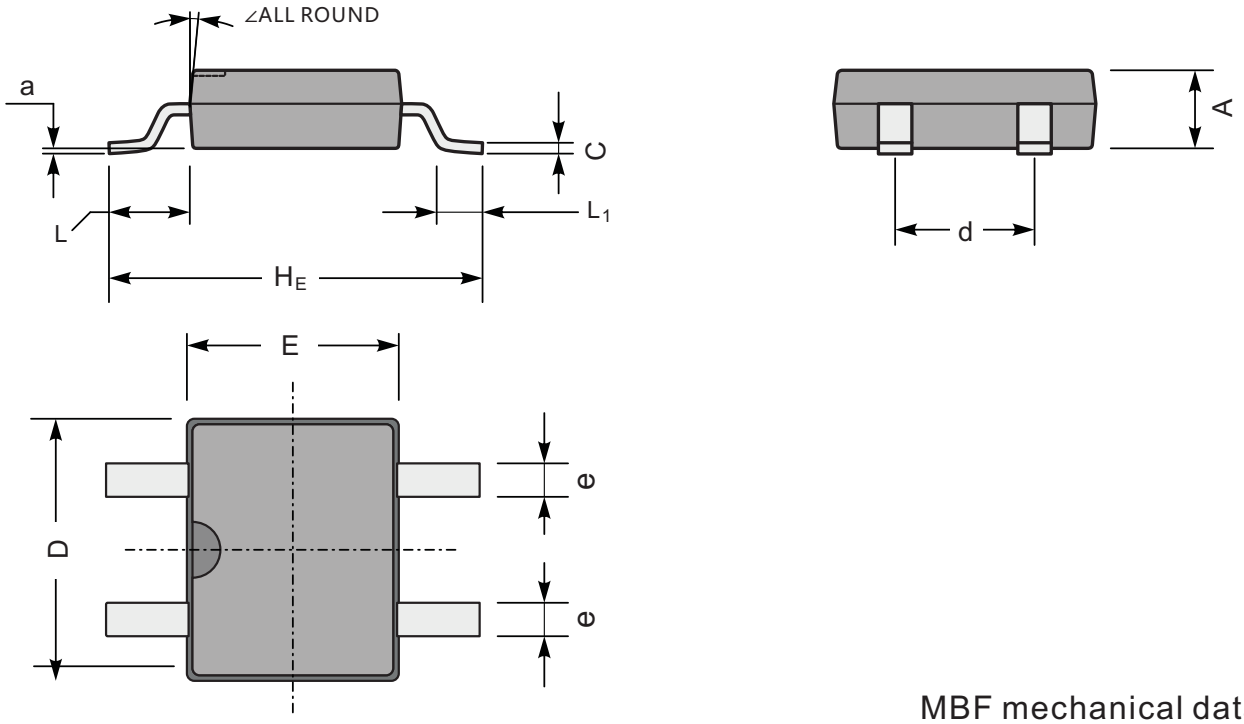








Package Outline (MBF Dimensions in mm)



MBF mechanical data

UNIT		A	C	D	E	H_E	d	e	L	L_1	a	∠
mm	max	1.6	0.22	5.0	4.1	7.0	2.7	0.8	1.7	1.1	0.2	7°
	min	1.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	—	
mil	max	63	8.7	197	161	276	106	31	67	43	8	
	min	47	5.9	177	142	252	91	20	51	20	—	

Contact Information

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For additional information, please contact your local Sales Representative.

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