

MB1F-TN--MB10F-TN

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 3 2

 $\begin{array}{ll} \text{1.Input Pin(\sim)} & \text{2.Input Pin(\sim)} \\ \text{3.Output Anode($+$)} & \text{4.Output Cathode ($-$)} \end{array}$

Marking Code: MB1F-TN: MB1F MB2F-TN: MB2F MB4F-TN: MB4F MB6F-TN: MB6F

MB8F-TN: MB8F MB10F-TN: MB10F

Maximum Ratings and Electrical Characteristics

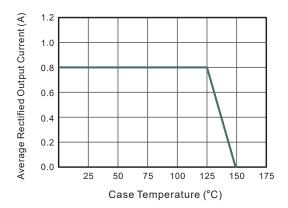
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

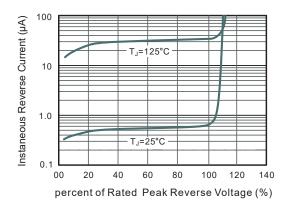
Parameter	Symbols	MB1F-PJ	MB2F-PJ	MB4F-PJ	MB6F-PJ	MB8F-PJ	MB10F-PJ	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current at T _C =125°C	lo	0.8						
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	эм 30						
Maximum Instantaneous Forward Voltage at 0.8 A	V_{F}	1.1						
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25 ^{\circ}\text{C}$ $T_A = 125 ^{\circ}\text{C}$	I _R	5 40						
Typical Junction Capacitance Note1	C _j 13							pF
Typical Thermal Resistance Note2	$R_{ heta JA}$ $R_{ heta JC}$	90 30						
Junction Temperature	T _J	150						°C
Storage Temperature Range	ge Temperature Range T _{STG} -55 to +150							°C

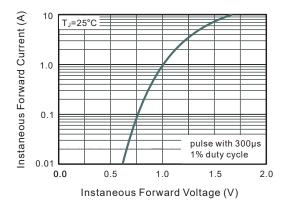
Note:

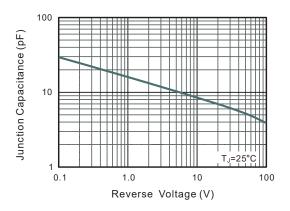
- 1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
- 2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

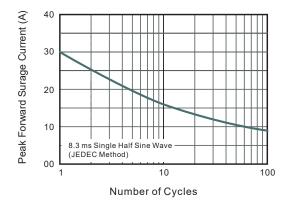
Typical Characteristic Curves



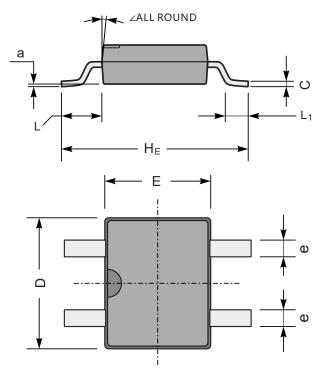


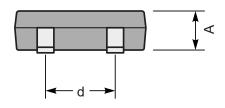






Package Outline (MBF Dimensions in mm)





MBF mechanical data

UNIT		Α	С	D	Е	H _E	d	е	L	L ₁	а	۷
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	7°
	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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