

1A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Feature

- Glass Passivated Chip Junction
- Reverse Voltage 100 to 1000 V
- Forward Current 1 A
- High Surge Current Capability
- Designed for Surface Mount Application

Mechanical Characteristics

Case: MBF

> Terminals: Solderable per MIL-STD-750, Method

> Approx. Weight: 75mg 0.0026oz

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	Sym bol	MB1F -10	MB2F -10	MB4F -10	MB6F -10	MB8F -10	MB10 F-10	U nit s
Maximum Repetitive Peak Reverse Voltage		100	200	400	600	800	1000	٧
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
Average Rectified Output Current at Ta=50°C	Io	1.0				Α		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	35					Α	
Maximum Forward Voltage at 1.0 A	V _F	1.1			V			
Maximum DC Reverse Current @T _{A=} 25°C at Rated DC Blocking Voltage @T _{A=} 125°C	I _R	5 40					μA	
Typical Junction Capacitance (Note 1)	C _j	13				pF		
Typical Thermal Resistance (Note 2)	R _{θJA} R _{θjl}	85 30				°C /W		
Operating and Storage Temperature Range	T _J ,T _{ST}	-55 to +150				°C		

Note:

- 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2. Mounted on glass epoxy PC board with $4 \times (5 \times 5 \text{mm}^2)$ copper pad.

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Typical Characteristics

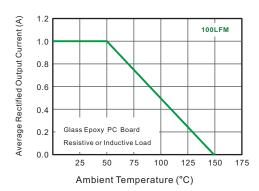


Fig.1 Average Rectified Output Current Derating Curve

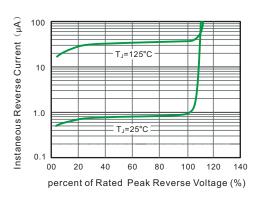


Fig.2 Typical Reverse Characteristics

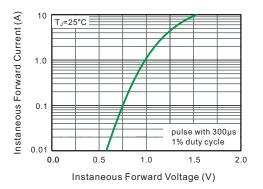


Fig.3 Typical Instaneous Forward Characteristics

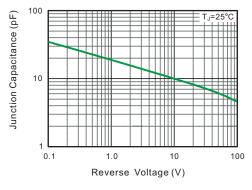


Fig.4 Typical Junction Capacitance

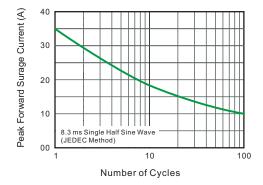
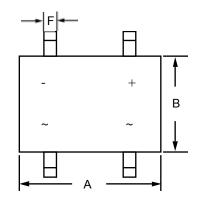
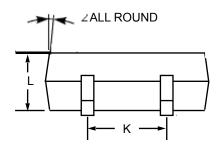
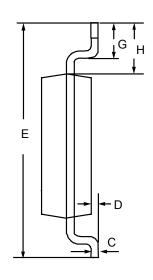


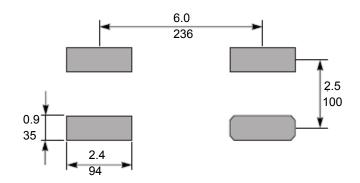
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

Product dimension (MBF)









Unit:mm
OTHE.ITH

Dim	Inches		Millimeters		
	MIN	MAX	MIN	MAX	
Α	177.00	197.00	4.50	5.00	
В	142.00	161.00	3.60	4.10	
С	5.90	8.70	0.15	0.22	
D		8.00	-	0.20	
Е	252.00	276.00	6.40	7.00	
G	20.00	43.00	0.50	1.10	
Н	51.00	67.00	1.30	1.70	
K	91.00	106.00	2.30	2.70	
L	47.00	63.00	1.20	1.60	
F	20.00	31.00	0.50	0.80	

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Rev.06 4 www.prisemi.com