

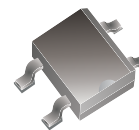
MMB1G-HF Thru. MMB10G-HF

Reverse Voltage: 100 to 1000 Volts

Forward Current: 0.5 Amp

RoHS Device

Halogen Free

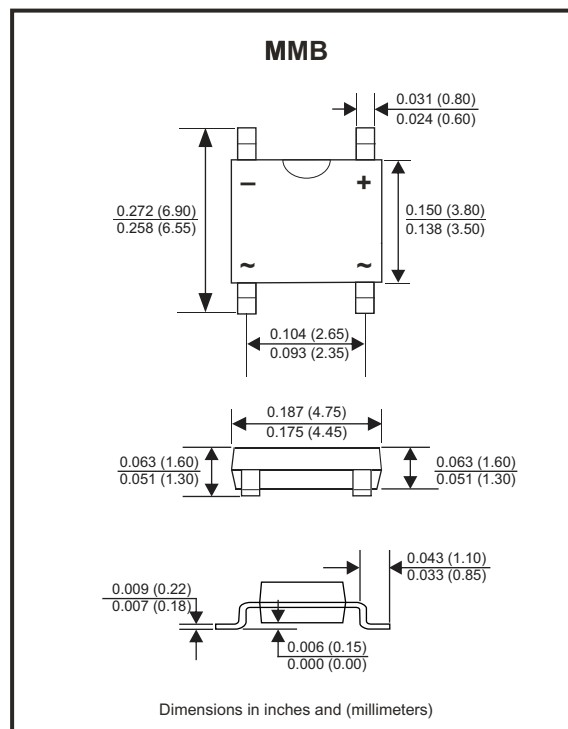


Features

- Glass passivated chip junctions.
- High surge overload rating: 30A peak.
- Saves space on printed circuit boards.
- High temperature soldering guaranteed:
260°C/10 seconds at 5 lbs. (2.3kg) tension
- UL recognized file # E464656 Range: MMB6G thru. MMB10G

Mechanical data

- Case: Molded plastic body over passivated junctions.
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- Polarity: Polarity symbols marked on body.



Maximum Rating And Electrical Characteristics

Rating at TA=25°C, unless otherwise noted.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbol	MMB 1G-HF	MMB 2G-HF	MMB 4G-HF	MMB 6G-HF	MMB 8G-HF	MMB 10G-HF	Unit
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Reverse 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 Forward Output Current @TA=25°C	I _{F(AV)}	0.5 ¹⁾ 0.8 ²⁾						A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave, Superimposed On Rated Load	I _{FSM}	30						A
Maximum Instantaneous Forward Voltage @0.8A	V _F	1.1						V
Maximum Reverse Current @Rated DC Blocking Voltage	@TA=25°C	5.0						µA
	@TA=100°C	0.5						mA
Typical Thermal Resistance per leg	R _{θJA}	85						°C/W
	R _{θJL}	20						
Current squared time t<8.3ms, TA=25°C	I ² t	3.74						A ² s
Typical junction capacitance per leg	C _J	13						pF
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150						°C

Note: 1. On glass-epoxy P.C.B.
2. On alumina substrate.

Company reserves the right to improve product design , functions and reliability without notice.

REV: A

Rating and Characteristic Curves (MMB1G-HF Thru. MMB10G-HF)

Fig.1 - Derating Curve For Output Rectified Current

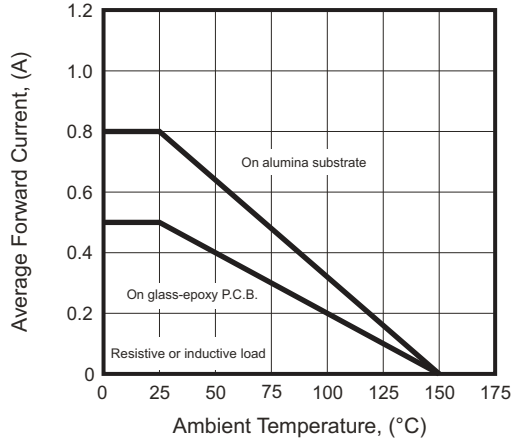


Fig.2 - Maximum Non-repetitive Peak Forward Surge Current Per Leg

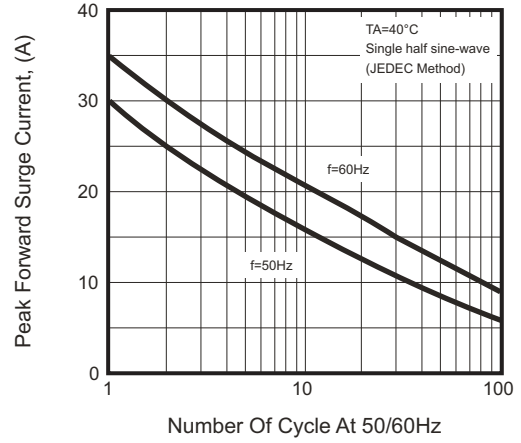


Fig.3 - Typical Forward Voltage Characteristics Per Leg

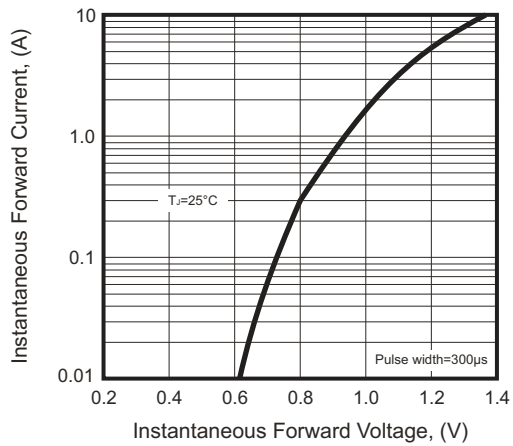


Fig.4 - Typical Reverse Characteristics

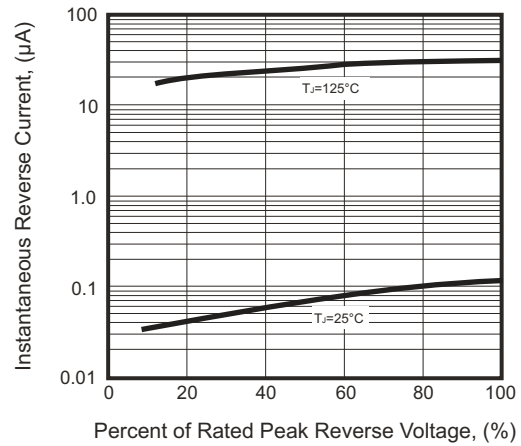
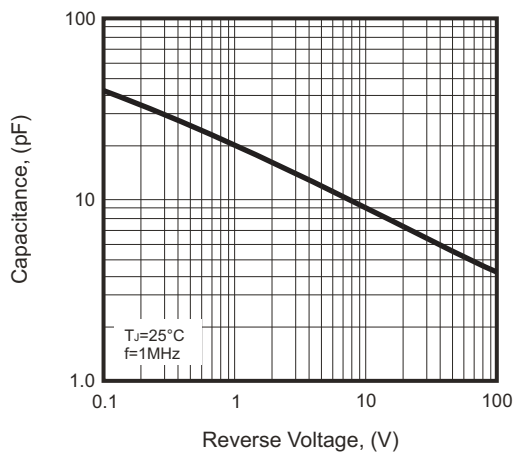
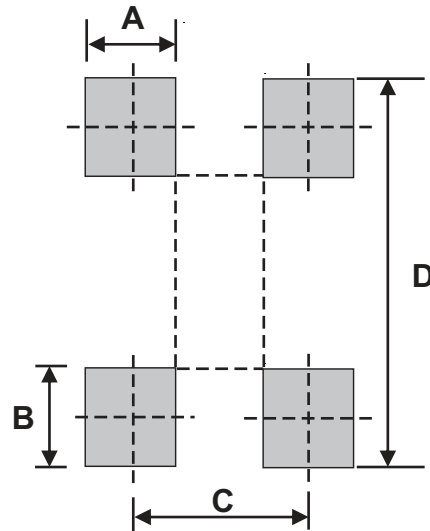


Fig.5 - Typical Junction Capacitance Per Element



Suggested PAD Layout

SIZE	MMB	
	(mm)	(inch)
A	0.70	0.028
B	1.00	0.039
C	2.60	0.102
D	7.01	0.276



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
MMB	5,000	13