

High Current Bridge Rectifier

MB Series

Reverse Voltage: 50 - 1000 Volts
Forward Current: 10/15/25/35/50 Amp

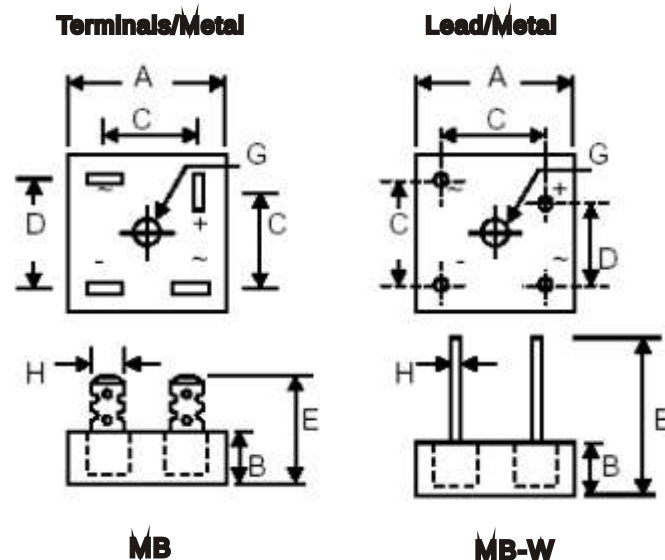
Features

- Surge overload 200 - 400 Amp peak
- Low forward voltage dro
- Mounting position: Any
- Electrically isolated base - 1800 Volts
- Solderable 0.25" FASTON terminals
- Materials used carries U/L recognition

Mechanical Data

- Case: Metal Case with Electrically Isolated Epoxy
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Mounting: Through Hole for #10 Screw
- Weight: 30 grams (approx.)

- "W" Suffix Designates Wire Leads
- No Suffix Designates Faston Terminals



	TERMINALS		LEAD	
Dim	Min	Max	Min	Max
A	28.40	28.70	28.40	28.70
B	10.97	11.23	10.97	11.23
C	15.70	16.70	17.10	19.10
D	17.50	18.50	10.90	11.90
E	22.86	25.40	30.50	-
G	Hole for #10 screw, 5.08Ø Nominal			
H	6.35 Typical		0.97Ø	1.07Ø
All Dimension in mm				

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
 Resistive or inductive load 60Hz.
 For capacitive load current by 20%

CHARACTERISTICS	MB	MB	MB	MB	MB	MB	MB	UNIT
	1005	101	102	104	106	108	1010	
	1505	151	152	154	156	158	1510	
	2505	251	252	254	256	258	2510	
	3505	351	352	354	356	358	3510	
	5005	501	502	504	506	508	5010	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum Forward Voltage Drop per element at 5.0/7.5/12.5/17.5/25.0A Peak	1.2							V
Maximum Reverse Current at Rate DC Blocking Voltage per element @ T _A = 25°C	10							µA
Operating Temperature Range T _C	-55 to +125							°C
Storage Temperature Range T _A	-55 to +150							°C

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Maximum Ratings and Electrical Characteristics

CHARACTERISTICS	MB1005 - 1010	MB1505 - 1510	MB2505 - 2510	MB3505 - 3510	MB5005 - 5010	UNIT
Maximum Average Forward Rectified Output Current @ $T_C = 55^\circ\text{C}$	10	15	25	35	50	A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	200	300	300	400	400	A

NOTES: Also available on MB 10W/15W/25W/35W/50W series.

Rating and Characteristic Curves (MB10, 15, 25, 35, 50)

Fig. 1 - Reverse Characteristics

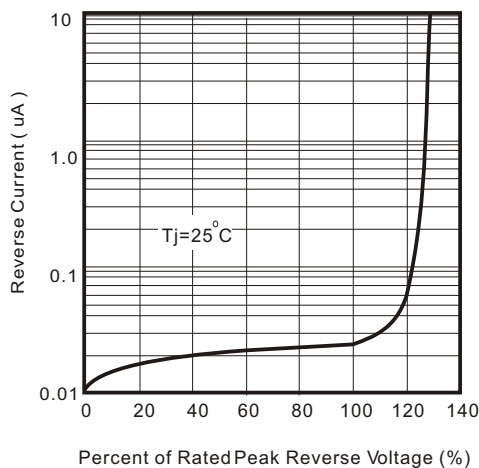


Fig. 2 - Forward Characteristics

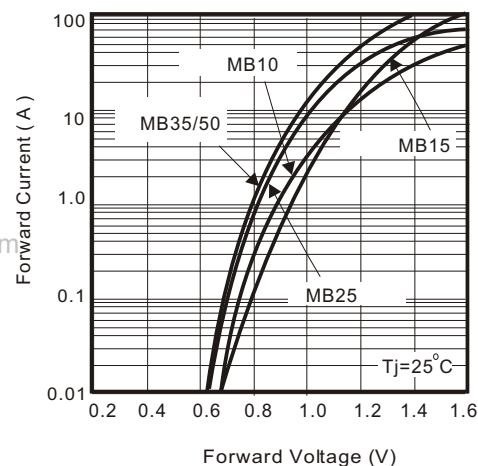


Fig. 3 - Non Repetitive Forward Surge Current

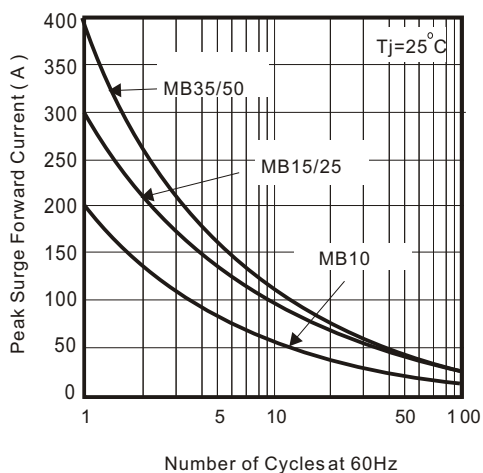


Fig. 4 - Current Derating Curve

