

High Current Bridge Rectifier

MBSeries-G (RoHS Device)

Reverse Voltage: 50 ~ 1000 Volts

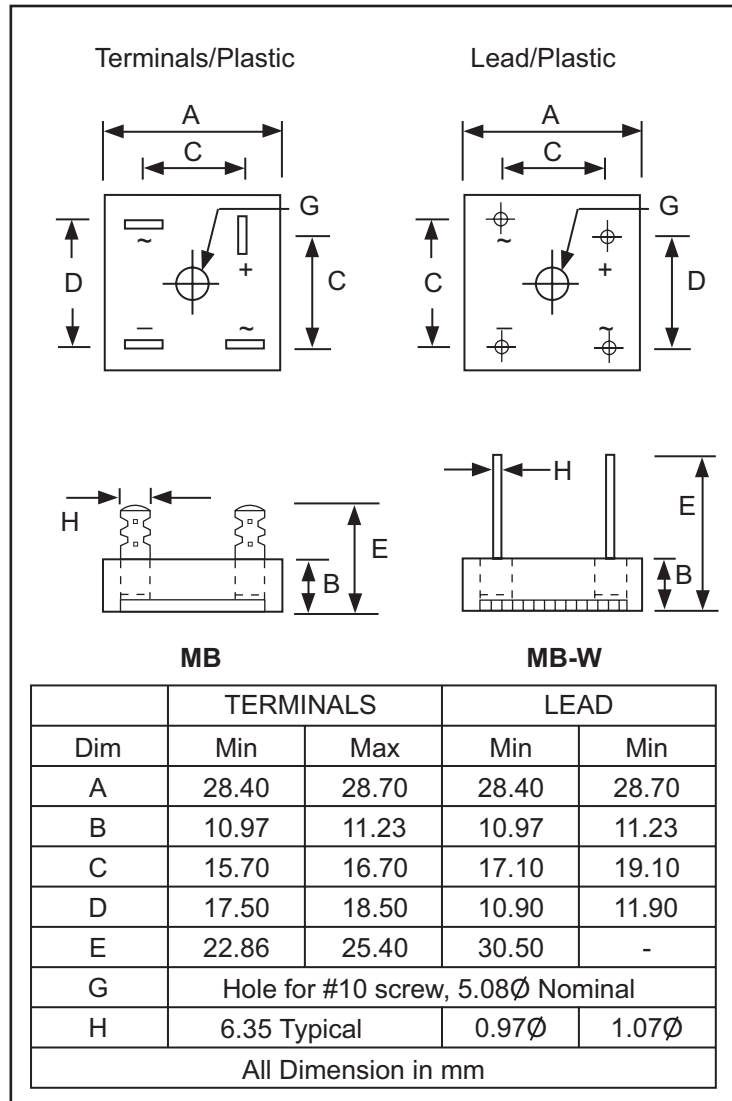
Forward Current: 10/15/25/35/50 Amp

Features:

- Surge Overload 200~400 Amp Peak
- Low Forward Voltage Drop
- 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.)



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

*-G" suffix designated RoHS compliant version - "W" Suffix Designates Wire Leads - No Suffix Designates Faston Terminals

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Maximum Ratings and Electrical Characteristics

Characteristics	MB1005-G ~1010-G	MB1505-G ~1510-G	MB2505-G ~2510-G	MB3505-G ~3510-G	MB5005-G ~5010-G	UNIT
Max. 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, 25, 35, 50)

Fig. 1 - Reverse Characteristics

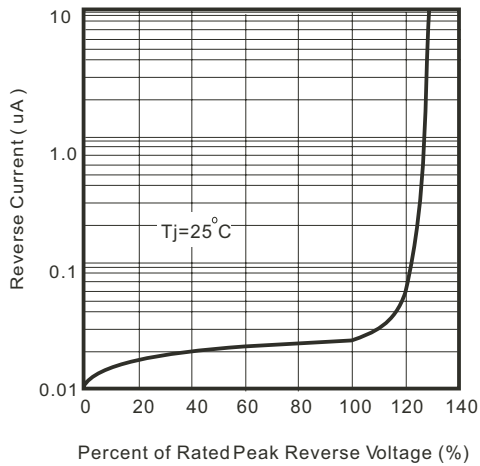


Fig. 2 - Forward Characteristics

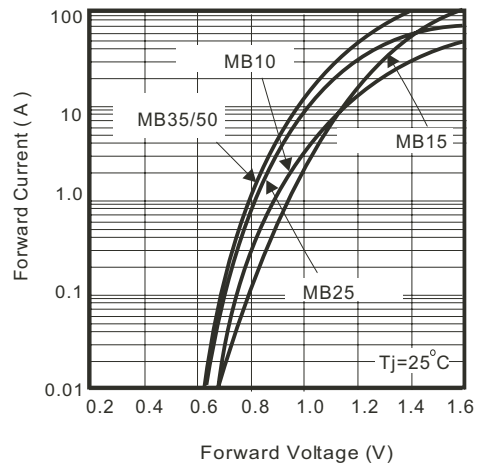


Fig. 3 - Non Repetitive Forward Surge Current

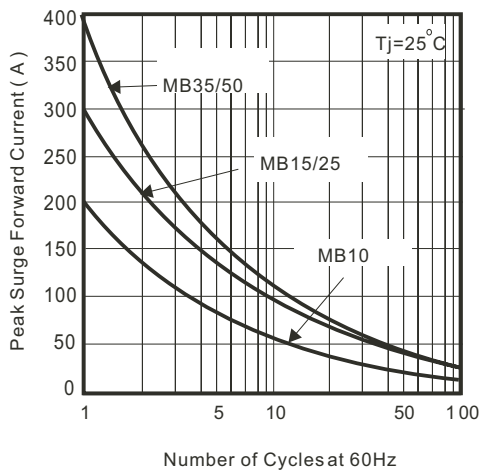


Fig. 4 - Current Derating Curve

