

## HIGH CURRENT SILICON BRIDGE RECTIFIER

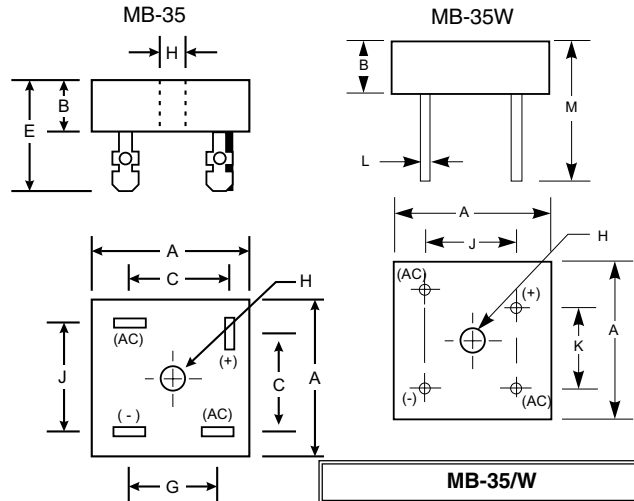
### Features

- High Conductivity
- Metal Case
- Superior Thermal Design
- Surge Ratings to 400A
- Terminals Solderable per MIL-STD-202, Method 208
- Universal Terminals; Snap-on, Solder or P.C. Board Mounting

### Mechanical Data

- Terminals: 0.25" Faston Terminals
- Case material - UL Flammability Rating Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Approx Weight: 29 grams
- Mounting Position: Bolt Down on Heat-sink with Silicone Thermal Compound Between Bridge and Mounting Surface for Maximum Heat Transfer Efficiency
- Mounting Torque: 20 in. lb. Max.
- Polarity: Polarity Symbols Marked on Case

NOT RECOMMENDED FOR NEW DESIGNS,  
USE GBPC15/W, GBPC25/W, OR GBPC35/W



MB-35/W		
Dim	Min	Max
A	28.4	28.7
B	10.97	11.23
C	15.5	17.6
E	—	25.4
G	13.3	15.3
H	4.9 $\varnothing$ Nominal	
J	18.6	19.6
All Dimensions in mm		

Suffix "W" denotes wire leads

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	-05	-1	-2	-4	-6	-8	-10	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current @ $T_C = 55^\circ\text{C}$	MB15 MB25 MB35 $I_{(AV)}$				15.0 25.0 35.0				A
Peak Forward Surge Current Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	MB15 MB25 MB35 $I_{FSM}$				300 300 400				A
Maximum Instantaneous @ 7.5A Forward Voltage Drop per @ 12.5A Rated Load (JEDEC Method) @ 17.5A	MB15 MB25 MB35 $V_F$				1.1 1.1 1.2				V
Maximum Reverse DC current at Rated DC Blocking Voltage (per Element) @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$	$I_R$				10 1.0				$\mu\text{A}$ mA
$I^2t$ rating for fusing (8.3ms)	MB15 MB25 MB35 $I^2t$				373 373 664				$\text{A}^2\text{s}$
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$				2.5				$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$				-55 to +150				$^\circ\text{C}$

Notes: 1. Thermal Resistance from junction to case

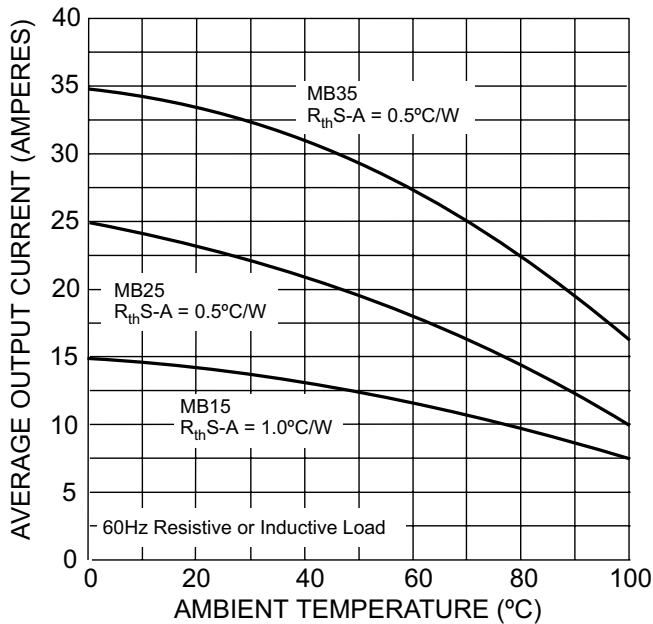


Fig. 1 Maximum Output Rectified Current

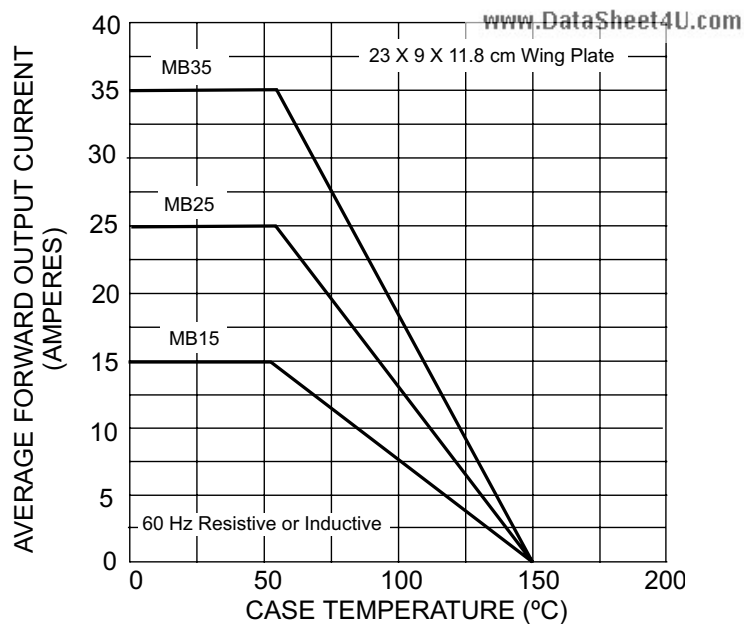


Fig. 2 Maximum Output Rectified Current

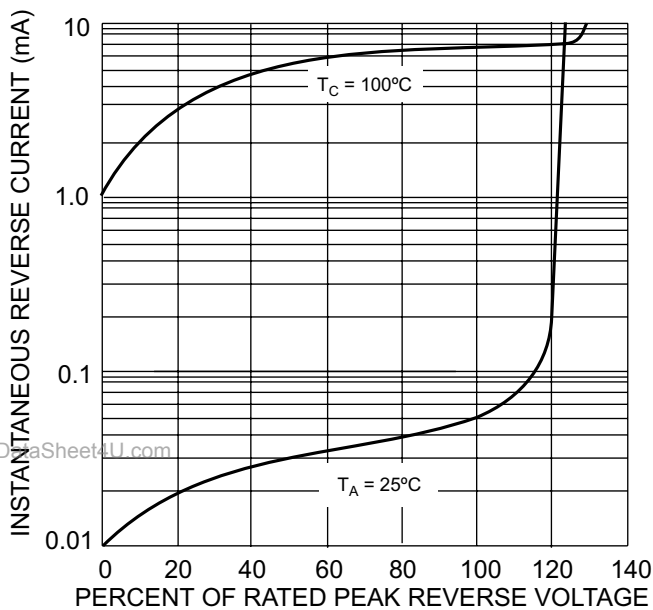


Fig. 3 Typical Reverse Characteristics

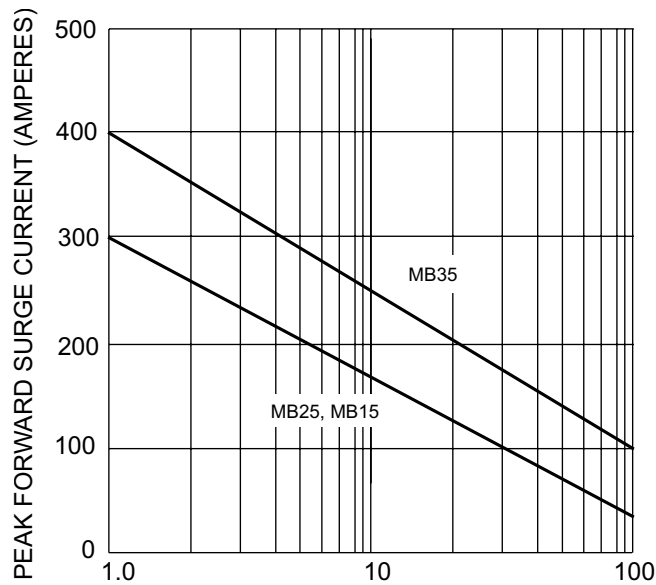


Fig. 4 Maximum Non-Repetitive Peak Forward Surge current

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