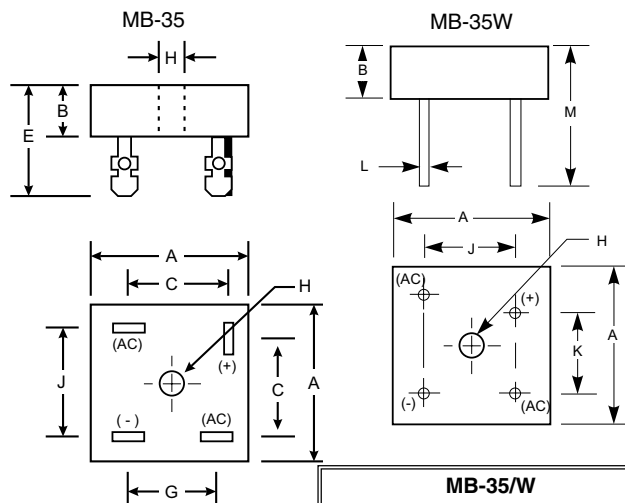


### Features

- 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



| 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<br>MB25<br>MB35<br>$I_{(AV)}$ | 15.0<br>25.0<br>35.0 |     |     |     |     |     |      | A                    |
| Peak Forward Surge Current Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)                                      | MB15<br>MB25<br>MB35<br>$I_{FSM}$  | 300<br>300<br>400    |     |     |     |     |     |      | A                    |
| Maximum Instantaneous @ 7.5A Forward Voltage Drop per @ 12.5A Rated Load (JEDEC Method) @ 17.5A                                 | MB15<br>MB25<br>MB35<br>$V_F$      | 1.1<br>1.1<br>1.2    |     |     |     |     |     |      | V                    |
| Maximum Reverse DC current at Rated DC Blocking Voltage (per Element) @ $T_A = 25^\circ\text{C}$<br>@ $T_A = 100^\circ\text{C}$ | $I_R$                              | 10<br>1.0            |     |     |     |     |     |      | $\mu\text{A}$<br>mA  |
| $I^2t$ rating for fusing (8.3ms)                                                                                                | MB15<br>MB25<br>MB35<br>$I^2t$     | 373<br>373<br>664    |     |     |     |     |     |      | $\text{A}^2\text{s}$ |
| Typical Thermal Resistance (Note 1)                                                                                             | $R_{\theta JC}$                    | 2.5                  |     |     |     |     |     |      | $^\circ\text{C/W}$   |
| Operating and Storage Temperature Range                                                                                         | $T_J, T_{STG}$                     | -55 to +150          |     |     |     |     |     |      | $^\circ\text{C}$     |

Notes: 1. Thermal Resistance from junction to case

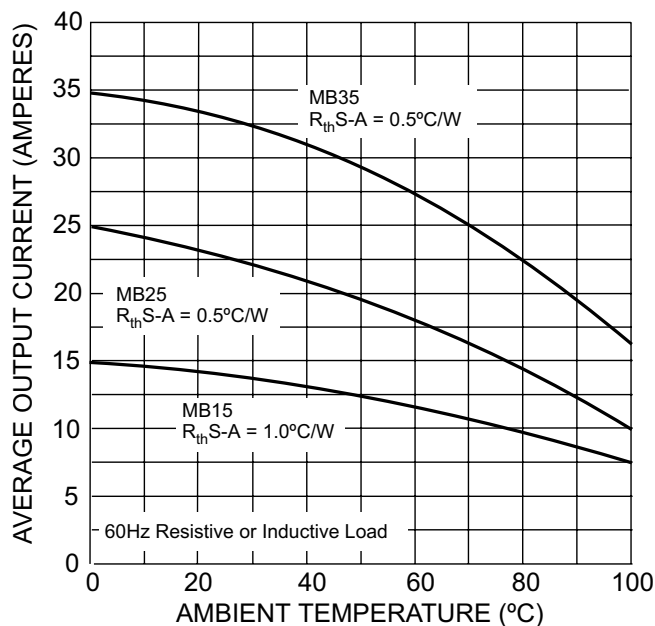


Fig. 1 Maximum Output Rectified Current

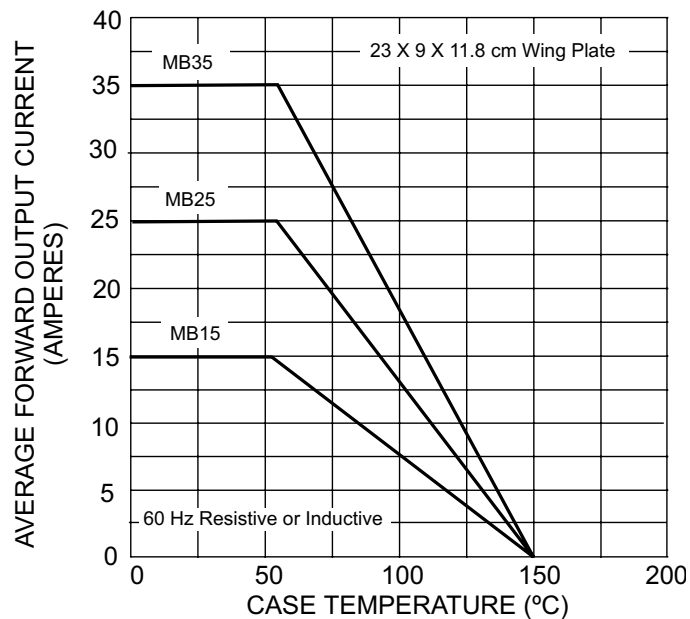


Fig. 2 Maximum Output Rectified Current

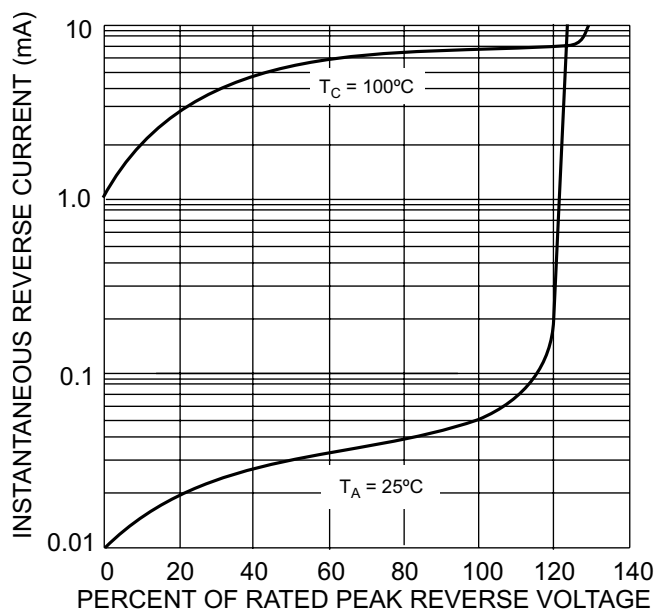


Fig. 3 Typical Reverse Characteristics

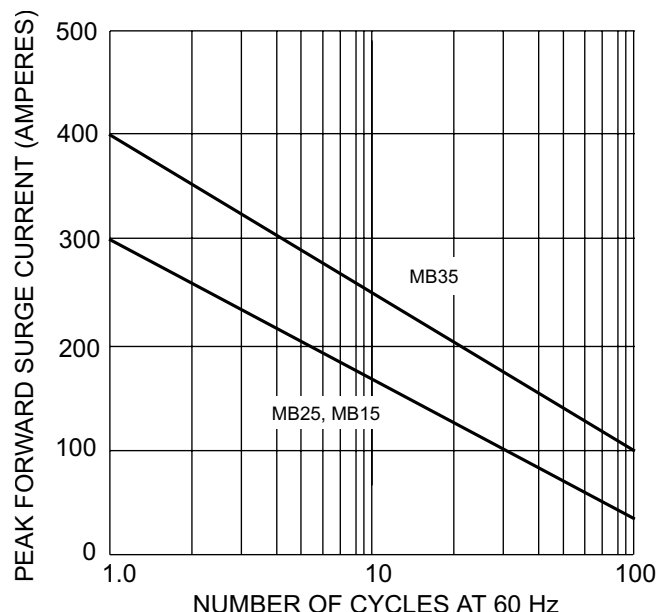


Fig. 4 Maximum Non-Repetitive Peak Forward Surge current

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