

## 35 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Voltage  
50 to 1000 V

Current  
35 A

**HYPERECTIFIER®**

- Glass Passivated Junction
- UL recognized under component index file number E130180
- Terminals: FASTON ①
- Terminals: WIRE LEADS ②
- Max. Mounting Torque: 25 Kg x cm

Lead and polarity identifications

High surge current capability

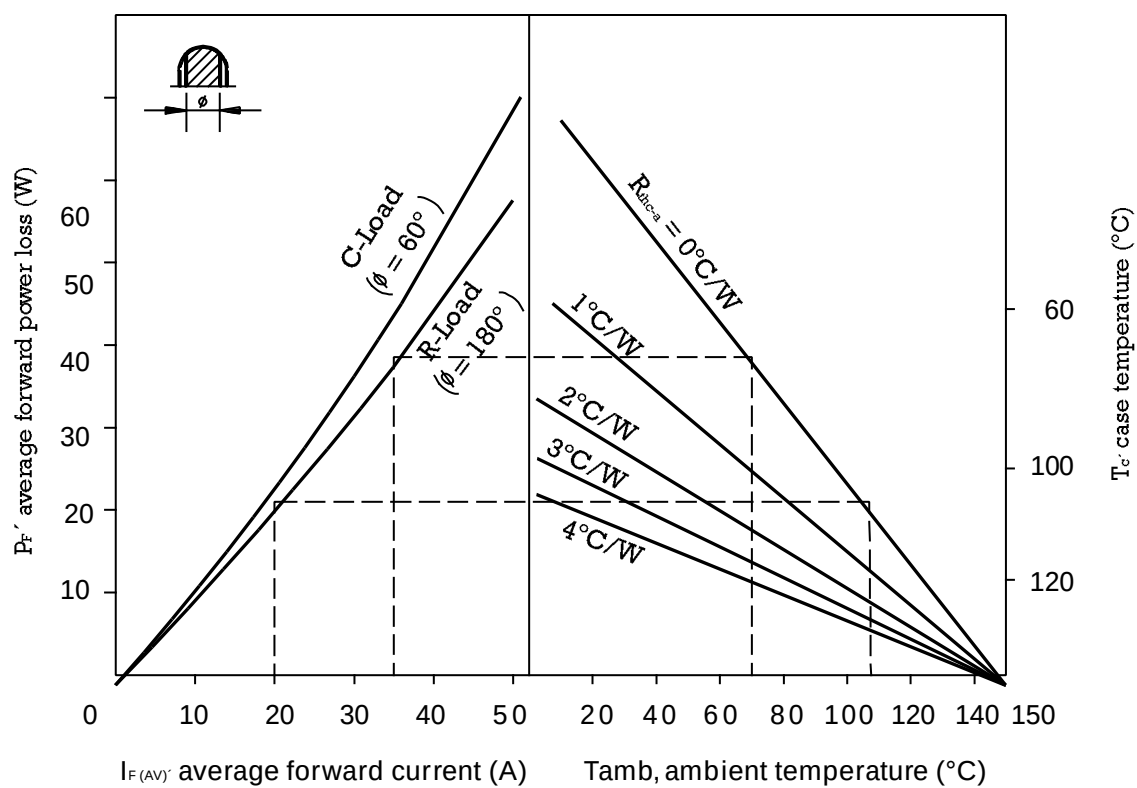
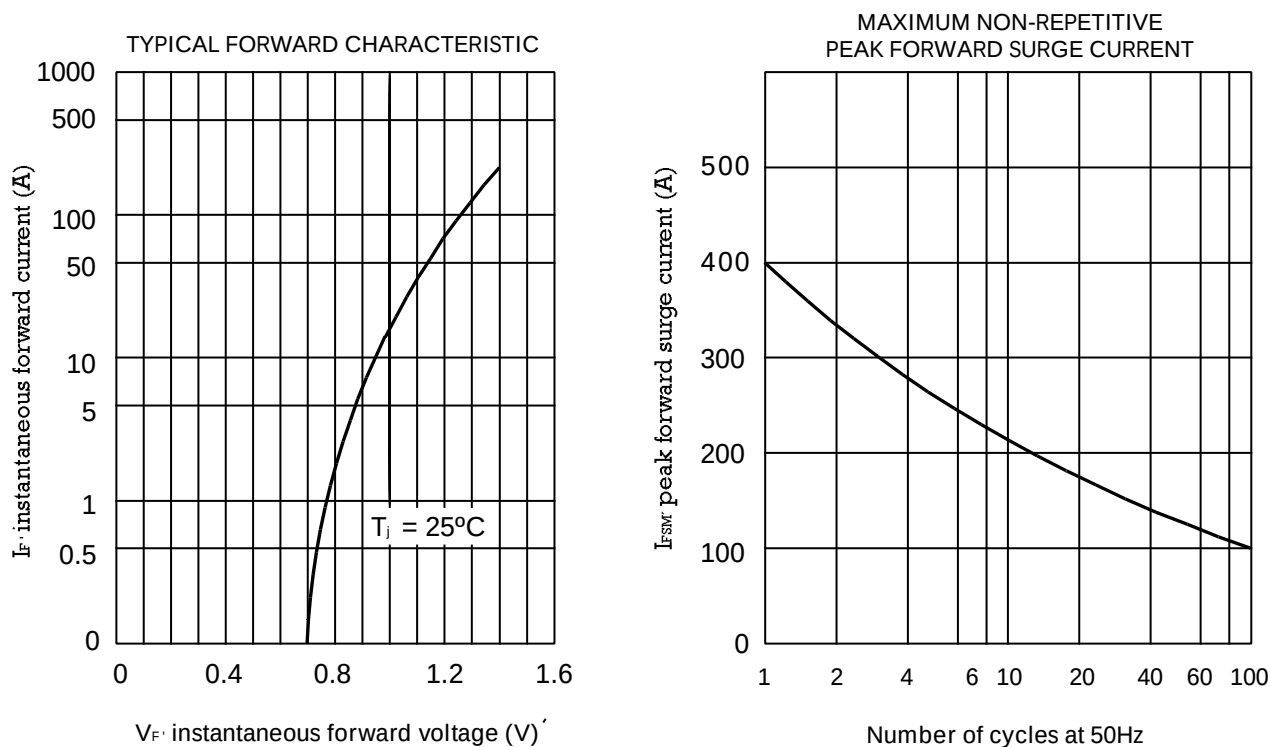
Maximum Ratings, according to IEC publication No. 134

|                    |                                                                                                                                             | ①                        | FB3500  | FB3501  | FB3502  | FB3504  | FB3506  | FB3508  | FB3510  |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|
|                    |                                                                                                                                             | ②                        | FB3500L | FB3501L | FB3502L | FB3504L | FB3506L | FB3508L | FB3510L |
| V <sub>RRM</sub>   | Peak Recurrent Reverse Voltage (V)                                                                                                          | 50                       | 100     | 200     | 400     | 600     | 800     | 1000    |         |
| V <sub>RMS</sub>   | Maximum RMS Voltage (V)                                                                                                                     | 35                       | 70      | 140     | 280     | 420     | 560     | 700     |         |
| V <sub>R</sub>     | Recommended Input Voltage (V)                                                                                                               | 20                       | 40      | 80      | 125     | 250     | 380     | 500     |         |
| I <sub>F(AV)</sub> | Max. forward current R-load: At T case = 55 °C<br>At T case = 90 °C<br>With Al Square Chassis (200 cm <sup>2</sup> x 3 mm.)<br>Tamb = 45 °C | 35 A<br>20 A<br><br>12 A |         |         |         |         |         |         |         |
| I <sub>FRM</sub>   | Recurrent peak forward current                                                                                                              | 75 A                     |         |         |         |         |         |         |         |
| I <sub>FSM</sub>   | 10 ms. peak forward current                                                                                                                 | 400 A                    |         |         |         |         |         |         |         |
| I <sup>2</sup> t   | I <sup>2</sup> t value for fusing (t = 10 ms)                                                                                               | 800 A <sup>2</sup> sec   |         |         |         |         |         |         |         |
| T <sub>j</sub>     | Operating temperature range                                                                                                                 | – 55 to + 150 °C         |         |         |         |         |         |         |         |
| T <sub>stg</sub>   | Storage temperature range                                                                                                                   | – 55 to + 150 °C         |         |         |         |         |         |         |         |

### Electrical Characteristics at Tamb = 25 °C

|             |                                                         |           |
|-------------|---------------------------------------------------------|-----------|
| $V_F$       | Max. forward voltage drop per element at $I_F = 17.5$ A | 1.1 V     |
| $I_R$       | Max. reverse current per element at $V_{RRM}$ d.c.      | 5 $\mu$ A |
| $R_{thj-c}$ | Typical thermal resistance junction to case             | 1.3 °C/W  |
|             | Isolation voltage from case to leads                    | 2500 Vac  |

# Characteristic Curves



Interrelation between power dissipation and the max. allowable ambient temperature.