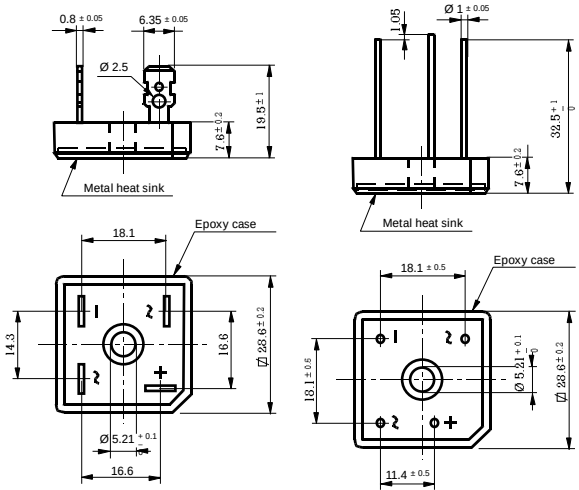


## 35 Amp. Glass Passivated Bridge Rectifier

|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Dimensions in mm.</p>  | <p>Voltage<br/>50 to 1000 V</p> <p>Current<br/>35 A</p> <p><b>HYPERECTIFIER®</b></p> <ul style="list-style-type: none"> <li>• Glass Passivated Junction</li> <li>• UL recognized under component index file number E130180</li> <li>• Terminals: FASTON ①</li> <li>• Terminals: WIRE LEADS ②</li> <li>• Max. Mounting Torque: 25 Kg x cm</li> </ul> <p>Lead and polarity identifications</p> <p>High surge current capability</p> |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

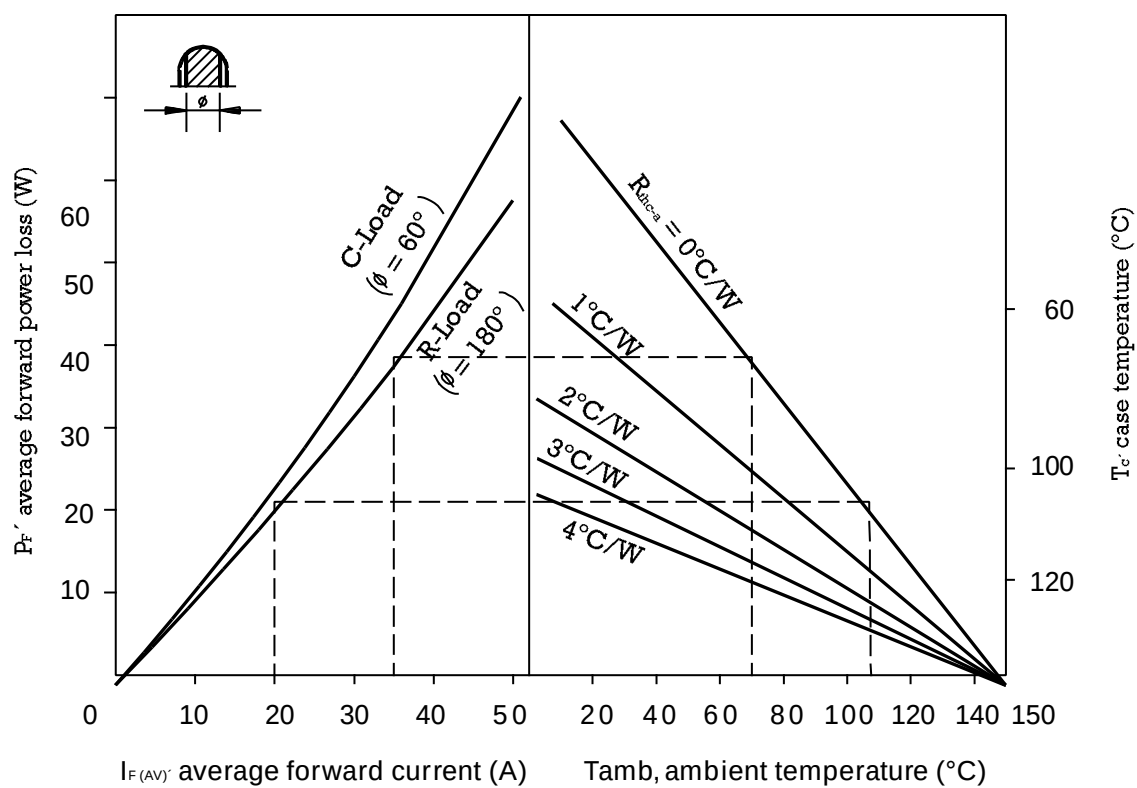
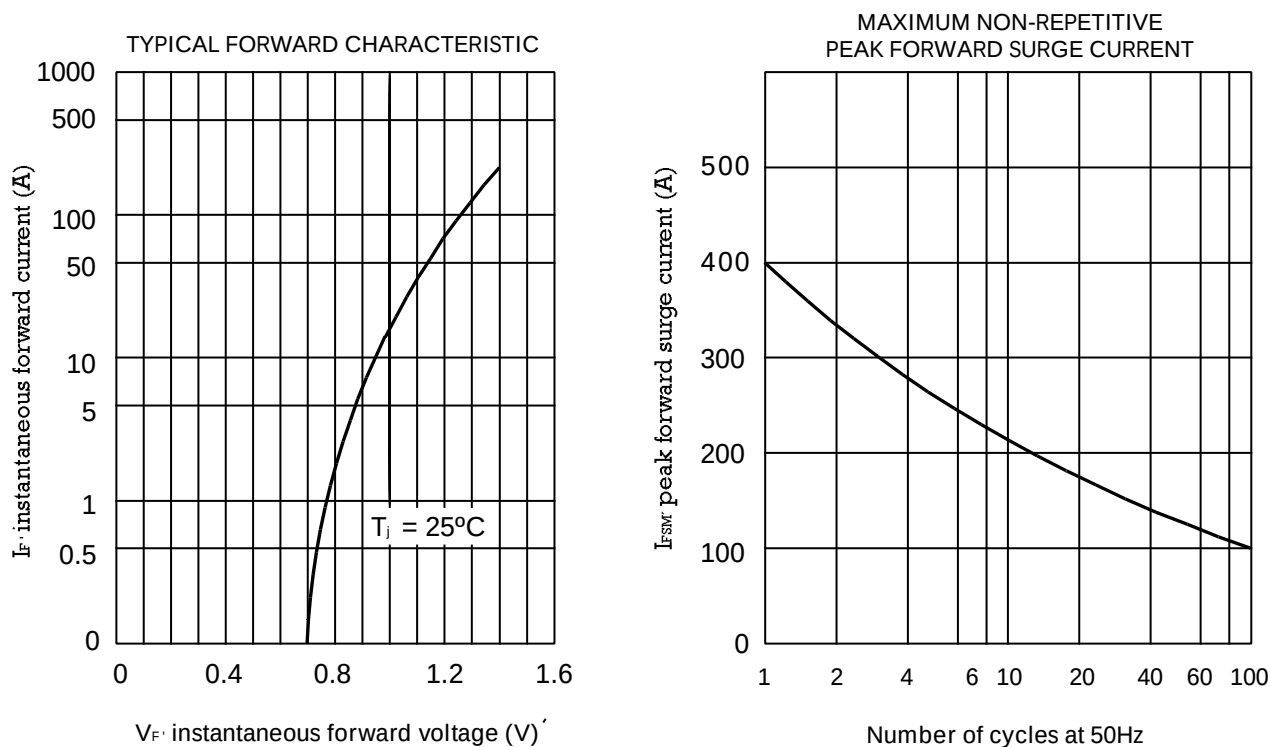
### Maximum Ratings, according to IEC publication No. 134

|             |                                                                                                                                             | ① | FB3500                 | FB3501  | FB3502  | FB3504  | FB3506  | FB3508  | FB3510  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------|---------|---------|---------|---------|---------|---------|
|             |                                                                                                                                             | ② | FB3500L                | FB3501L | FB3502L | FB3504L | FB3506L | FB3508L | FB3510L |
| $V_{RRM}$   | Peak Recurrent Reverse Voltage (V)                                                                                                          |   | 50                     | 100     | 200     | 400     | 600     | 800     | 1000    |
| $V_{RMS}$   | Maximum RMS Voltage (V)                                                                                                                     |   | 35                     | 70      | 140     | 280     | 420     | 560     | 700     |
| $V_R$       | Recommended Input Voltage (V)                                                                                                               |   | 20                     | 40      | 80      | 125     | 250     | 380     | 500     |
| $I_{F(AV)}$ | 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>12 A   |         |         |         |         |         |         |
| $I_{FRM}$   | Recurrent peak forward current                                                                                                              |   | 75 A                   |         |         |         |         |         |         |
| $I_{FSM}$   | 10 ms. peak forward current                                                                                                                 |   | 400 A                  |         |         |         |         |         |         |
| $I^2t$      | $I^2t$ value for fusing (t = 10 ms)                                                                                                         |   | 800 A <sup>2</sup> sec |         |         |         |         |         |         |
| $T_j$       | Operating temperature range                                                                                                                 |   | – 55 to + 150 °C       |         |         |         |         |         |         |
| $T_{stg}$   | 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 µA     |
| $R_{thj-c}$ | 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.