



FB1000..... FB1010  
FB1000L ..... FB1010L

## 10 Amp. Glass Passivated Bridge Rectifier

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Dimensions in mm.</p> | <p>Voltage<br/>50 to 1000 V</p> <p>Current<br/>10 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<br/>High surge current capability</p> |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|             |                                                                                                                                                                            | ① | FB1000                 | FB1001  | FB1002  | FB1004  | FB1006  | FB1008  | FB1010  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------|---------|---------|---------|---------|---------|---------|
|             |                                                                                                                                                                            | ② | FB1000L                | FB1001L | FB1002L | FB1004L | FB1006L | FB1008L | FB1010L |
| $V_{RRM}$   | 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 $T_{case} = 55^{\circ}C$<br>At $T_{case} = 90^{\circ}C$<br>With Al Square Chassis (200 cm <sup>2</sup> x 3 mm.)<br>$T_{amb} = 45^{\circ}C$ |   | 10 A<br>7.5 A<br>5 A   |         |         |         |         |         |         |
| $I_{FRM}$   | Recurrent peak forward current                                                                                                                                             |   | 50 A                   |         |         |         |         |         |         |
| $I_{FSM}$   | 10 ms. peak forward current                                                                                                                                                |   | 200 A                  |         |         |         |         |         |         |
| $I^2t$      | $I^2t$ value for fusing (t = 10 ms)                                                                                                                                        |   | 200 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 $T_{amb} = 25^{\circ}C$

|             |                                                      |           |
|-------------|------------------------------------------------------|-----------|
| $V_F$       | Max. forward voltage drop per element at $I_F = 5 A$ | 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          | 2 °C/W    |
|             | Isolation voltage from case to leads                 | 2500 Vac  |

## Characteristic Curves

