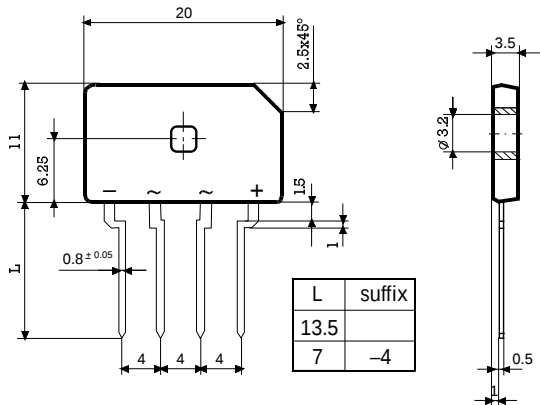


## 2 Amp. Glass Passivated Bridge Rectifier

|                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Dimensions in mm.</p>  <p>Plastic Case</p> <p>• <b>Mounting Instructions</b></p> <ul style="list-style-type: none"> <li>• High temperature soldering guaranteed: 260 °C – 10 sc.</li> <li>• Recommended mounting torque: 8 Kg.cm.</li> </ul> | <p>Voltage<br/>50 to 1000 V.</p> <p>Current<br/>2 A.</p> <p><b>HYPERECTIFIER</b>®</p> <ul style="list-style-type: none"> <li>• Glass Passivated Junction Chips.</li> <li>• UL recognized under component index file number E130180.</li> <li>• Lead and polarity identifications.</li> <li>• Case: Molded Plastic.</li> <li>• Ideal for printed circuit board (P.C.B.).</li> <li>• The plastic material carries U/L recognition 94 V-O.</li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

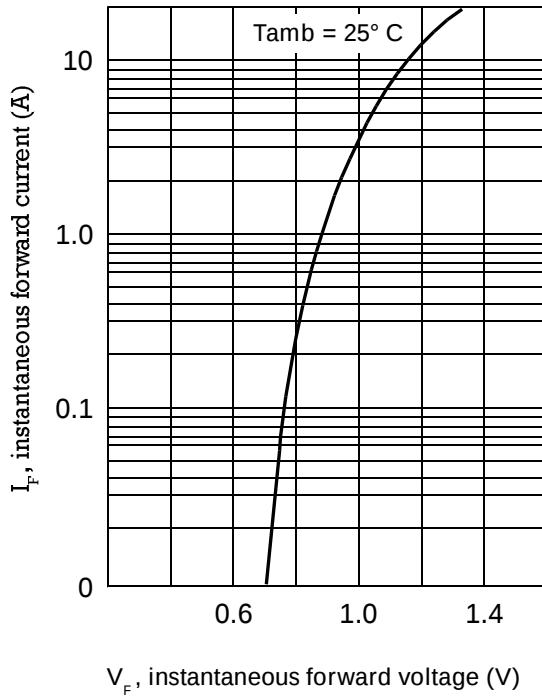
|             |                                                                | FBI2A<br>4S1                     | FBI2B<br>4S1 | FBI2D<br>4S1 | FBI2G<br>4S1 | FBI2J<br>4S1 | FBI2K<br>4S1 | FBI2M<br>4S1 |
|-------------|----------------------------------------------------------------|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| $V_{RRM}$   | 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          |
| $I_{F(AV)}$ | Max. Average forward current with heatsink<br>without heatsink | 4.5 A at 65 °C<br>2.0 A at 25 °C |              |              |              |              |              |              |
| $I_{FSM}$   | 8.3 ms. peak forward surge current<br>(Jedec Method)           | 60 A                             |              |              |              |              |              |              |
| $I^2t$      | Rating for fusing ( t < 8.3 ms.)                               | 15 A <sup>2</sup> sec            |              |              |              |              |              |              |
| $V_{DIS}$   | Dielectric strength (terminals to case, AC 1 min.)             | 1500 V                           |              |              |              |              |              |              |
| $T_j$       | Operating temperature range                                    | – 55 to + 150 °C                 |              |              |              |              |              |              |
| $T_{stg}$   | Storage temperature range                                      | – 55 to +150 °C                  |              |              |              |              |              |              |

### Electrical Characteristics at Tamb = 25°C

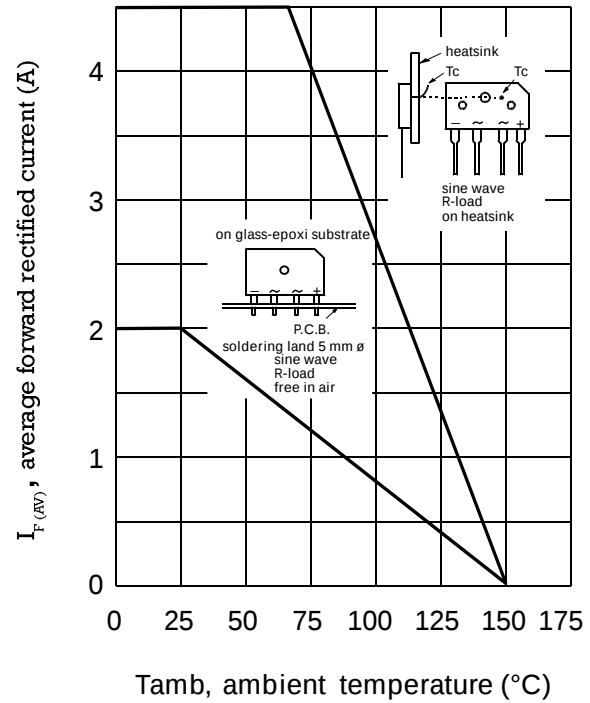
|               |                                                             |         |
|---------------|-------------------------------------------------------------|---------|
| $V_F$         | Max. forward voltage drop per element at $I_F = 2$ A        | 1.0 V   |
| $I_R$         | Max. reverse current per element at $V_{RRM}$               | 5μ A    |
| $R_{th(j-c)}$ | MAXIMUM THERMAL RESISTANCE<br>Junction-Case. With Heatsink. | 12 °C/W |
| $R_{th(j-a)}$ | Junction-Ambient. Without Heatsink.                         | 40 °C/W |

# Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

