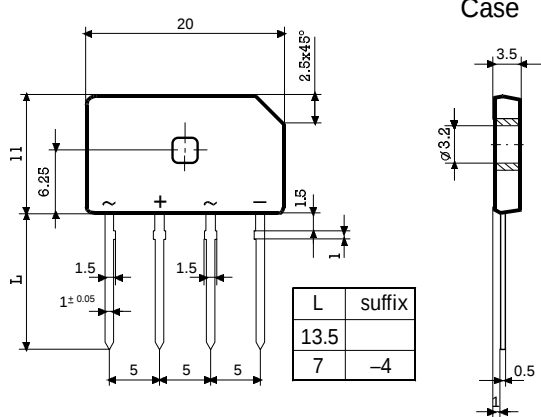


## 1.5 Amp. Glass Passivated Bridge Rectifier

|                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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/>100 to 1000 V.</p> <p>Current<br/>1.5 A.</p>  <p><b>• Glass Passivated Junction Chips.</b></p> <ul style="list-style-type: none"> <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

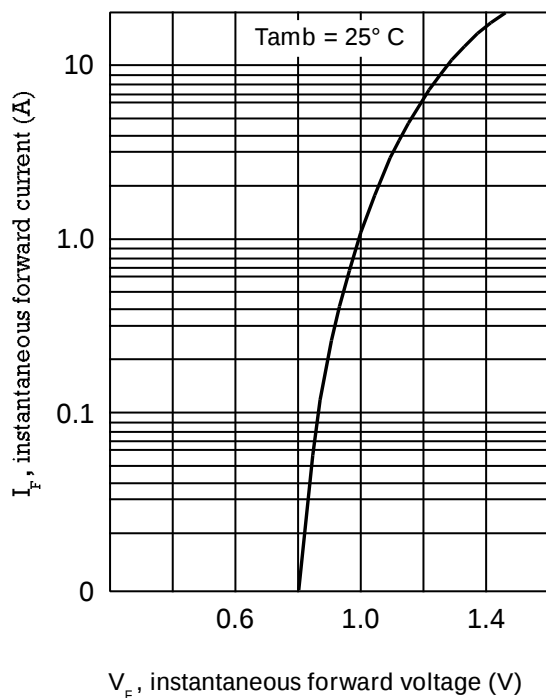
|             |                                                                | FBI1.5B<br>5S2                   | FBI1.5D<br>5S2 | FBI1.5F<br>5S2 | FBI1.5J<br>5S2 | FBI1.5L<br>5S2 | FBI1.5M<br>5S2 |
|-------------|----------------------------------------------------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|
| $V_{RRM}$   | Peak Recurrent Reverse Voltage (V)                             | 100                              | 200            | 300            | 600            | 900            | 1000           |
| $V_{RMS}$   | Maximum RMS Voltage (V)                                        | 70                               | 140            | 210            | 420            | 630            | 700            |
| $V_R$       | Recommended Input Voltage (V)                                  | 40                               | 80             | 125            | 250            | 380            | 500            |
| $I_{F(AV)}$ | Max. Average forward current with heatsink<br>without heatsink | 4.0 A at 65 °C<br>1.5 A at 25 °C |                |                |                |                |                |
| $I_{FRM}$   | Recurrent peak forward current                                 | 10 A                             |                |                |                |                |                |
| $I_{FSM}$   | 10 ms. peak forward surge current                              | 50 A                             |                |                |                |                |                |
| $I^2t$      | $I^2t$ value for fusing (t = 10 ms)                            | 12 A <sup>2</sup> sec            |                |                |                |                |                |
| $V_{DIS}$   | Dielectric strength (terminals to case, AC 1 min.)             | 1500 V                           |                |                |                |                |                |
| $T_j$       | Operating temperature range                                    | – 40 to + 150 °C                 |                |                |                |                |                |
| $T_{stg}$   | Storage temperature range                                      | – 40 to +150 °C                  |                |                |                |                |                |

Electrical Characteristics at Tamb = 25°C

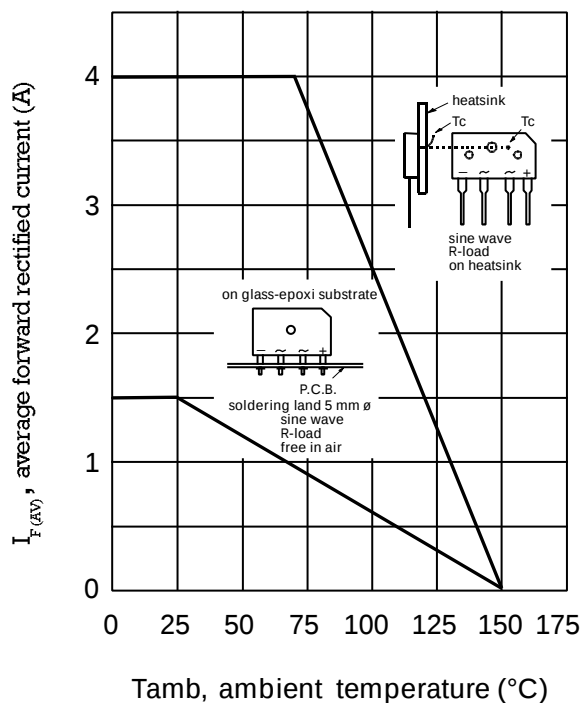
|                                |                                                                                                    |                    |
|--------------------------------|----------------------------------------------------------------------------------------------------|--------------------|
| $V_F$                          | Max. forward voltage drop per element at $I_F = 1$ A                                               | 1.1 V              |
| $I_R$                          | Max. reverse current per element at $V_{RRM}$                                                      | 5 mA               |
| $R_{th(j-c)}$<br>$R_{th(j-a)}$ | MAXIMUM THERMAL RESISTANCE<br>Junction-Case. With Heatsink.<br>Junction-Ambient. Without Heatsink. | 12 °C/W<br>45 °C/W |

# Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

