

8 Amp. Glass Passivated Bridge Rectifier

| <p>Dimensions in mm.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>L</th> <th>suffix</th> </tr> </thead> <tbody> <tr> <td>17.5</td> <td></td> </tr> <tr> <td>8</td> <td>-4</td> </tr> </tbody> </table> <p>• Mounting Instructions</p> <ul style="list-style-type: none"> • High temperature soldering guaranteed: 260 °C – 10 sc. • Recommended mounting torque: 8 Kg.cm. | L | suffix | 17.5 | | 8 | -4 | <p>Plastic Case</p> | <p>Voltage 50 to 1000 V.</p> <p>Current 8.0 A.</p> |
|--|--------|--------|------|--|---|----|---------------------|--|
| L | suffix | | | | | | | |
| 17.5 | | | | | | | | |
| 8 | -4 | | | | | | | |
| <ul style="list-style-type: none"> • Glass Passivated Junction Chips. • UL recognized under component index file number E130180. • Lead and polarity identifications. • Case: Molded Plastic. • Ideal for printed circuit board (P.C.B.). • High surge current capability. • The plastic material carries U/L recognition 94 V-O. | | | | | | | | |

Maximum Ratings, according to IEC publication No. 134

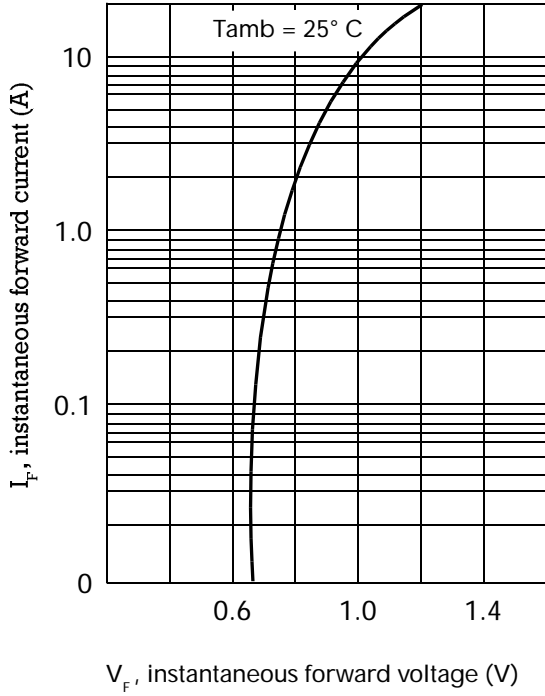
| | | FBI8A 5M1 | FBI8B 5M1 | FBI8D 5M1 | FBI8G 5M1 | FBI8J 5M1 | FBI8K 5M1 | FBI8M 5M1 |
|-------------|---|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| V_{RRM} | Peak recurrent reverse voltage (V) | 50 | 100 | 200 | 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 without heatsink | 8.0 A at 100 °C 3.0 A at 40 °C | | | | | | |
| I_{FSM} | 8.3 ms. peak forward surge current <small>(Jedec Method)</small> | 200 A | | | | | | |
| I^2t | Rating for fusing ($t < 8.3$ ms.) | 166 A ² 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

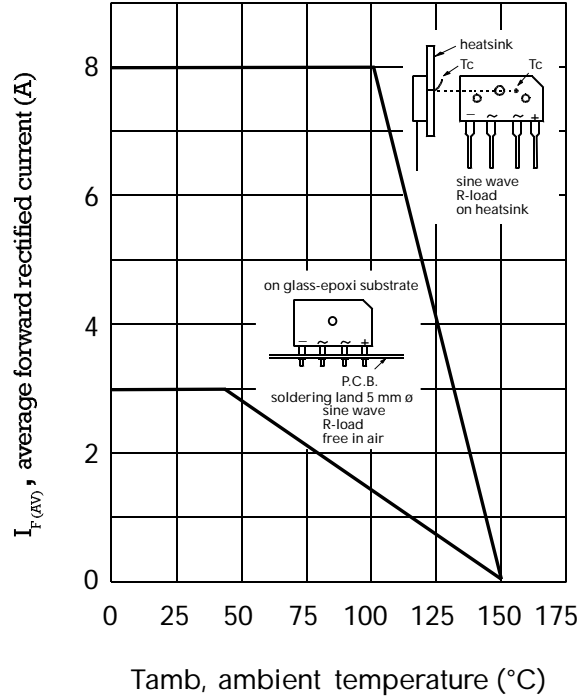
| | | |
|---------------|---|----------|
| V_F | Max. forward voltage drop per element at $I_F = 8$ A | 1.0V |
| I_R | Max. reverse current per element at V_{RRM} | 5µA |
| $R_{th(j-c)}$ | MAXIMUM THERMAL RESISTANCE Junction-Case. With Heatsink. | 2.2 °C/W |
| $R_{th(j-a)}$ | Junction-Ambient. Without Heatsink. | 22 °C/W |

Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

