

## 5 Amp. Glass Passivated Bridge Rectifier

<p>Dimensions in mm.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>L</td> <td>suffix</td> </tr> <tr> <td>17.5</td> <td></td> </tr> <tr> <td>8</td> <td>-4</td> </tr> </table>	L	suffix	17.5		8	-4	<p>Plastic Case</p> <p>Voltage 100 to 1000 V.</p> <p>Current 5.0 A.</p>
L	suffix						
17.5							
8	-4						
<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>• <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>• High surge current capability.</li> <li>• The plastic material carries U/L recognition 94 V-O.</li> </ul>						

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

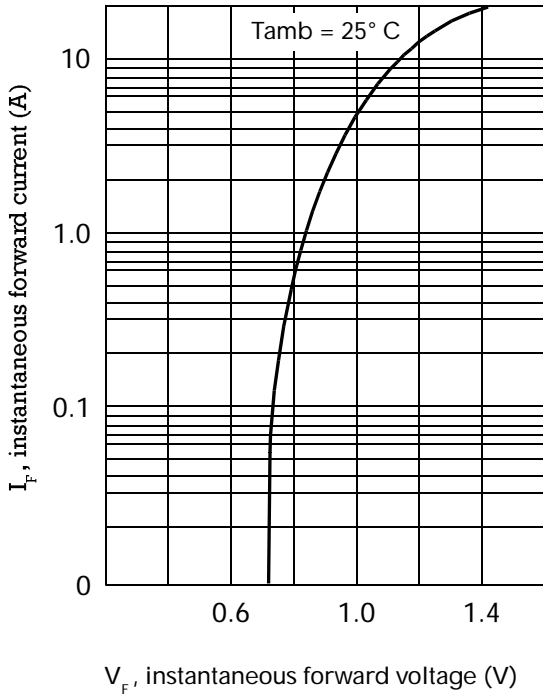
		FBI5B 1M1	FBI5D 1M1	FBI5F 1M1	FBI5J 1M1	FBI5L 1M1	FBI5M 1M1
$V_{RRM}$	Peak Recurrent Reverse Voltage (V)	100	200	300	600	900	1000
$V_{RMS}$	Maximum RMS Voltage (V)	70	140	210	420	630	700
$V_R$	Recommended Input Voltage (V)	40	80	125	250	380	500
$I_{F(AV)}$	Max. Average forward current with heatsink without heatsink	5.0 A at 100 °C 3.0 A at 25 °C					
$I_{FRM}$	Recurrent peak forward current	30 A					
$I_{FSM}$	10 ms. peak forward surge current	250 A					
$I^2t$	$I^2t$ value for fusing (t = 10 ms)	300 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

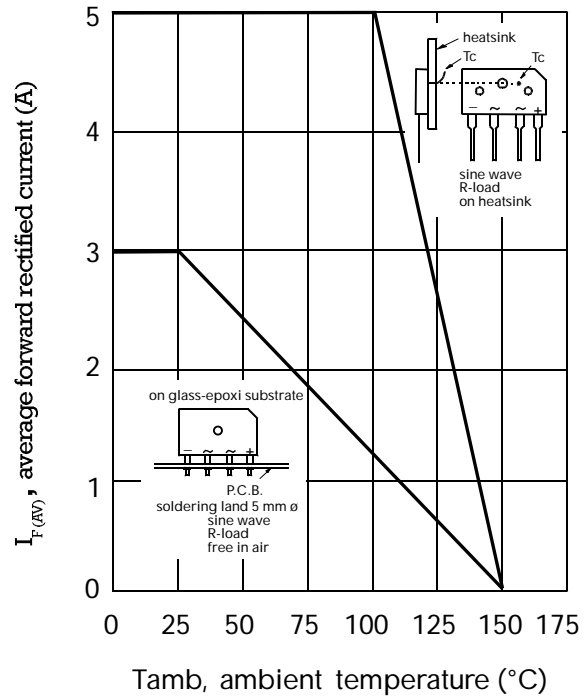
$V_F$	Max. forward voltage drop per element at $I_F = 5$ A	1.1 V
$I_R$	Max. reverse current per element at $V_{RRM}$	5 $\mu$ A
$R_{th(j-c)}$	MAXIMUM THERMAL RESISTANCE Junction-Case. With Heatsink.	2.2 °C/W
$R_{th(j-a)}$	Junction-Ambient. Without Heatsink.	22 °C/W

Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

