

## 6 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>• <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>	L	suffix	17.5		8	-4	<p>Plastic Case</p>	<p>Voltage 50 to 1000 V.</p> <p>Current 6.0 A.</p>
L	suffix							
17.5								
8	-4							
<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>• 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

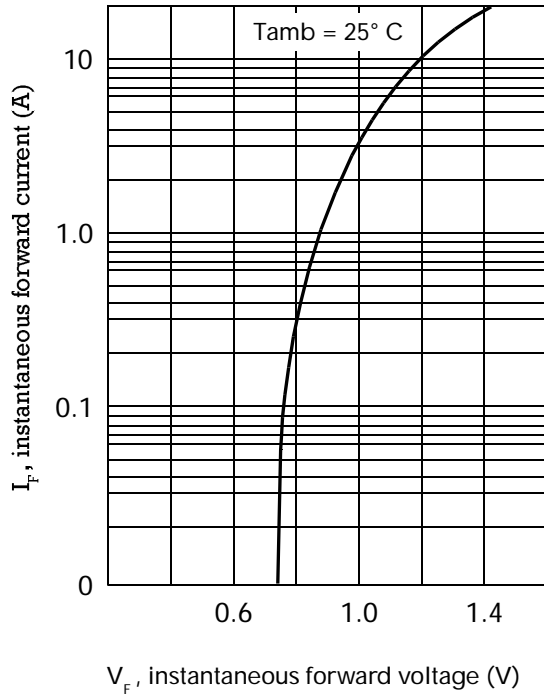
		FBI6A 1M1	FBI6B 1M1	FBI6D 1M1	FBI6G 1M1	FBI6J 1M1	FBI6K 1M1	FBI6M 1M1
$V_{RRM}$	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
$V_{RMS}$	Maximum RMS voltage (V)	35	70	140	280	420	560	700
$I_{F(AV)}$	Max. Average forward current with heatsink without heatsink	6.0 A at 100 °C 3.0 A at 40 °C						
$I_{FSM}$	10 ms. peak forward surge current (Jedec Method)	170 A						
$I^2t$	Current squared time (rating for fusing) (1ms.<t<10ms. Tc = 25°C)	140 A <sup>2</sup> sec						
$V_{DIS}$	Dielectric strength (terminals to case, AC 1 min.)	2000 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

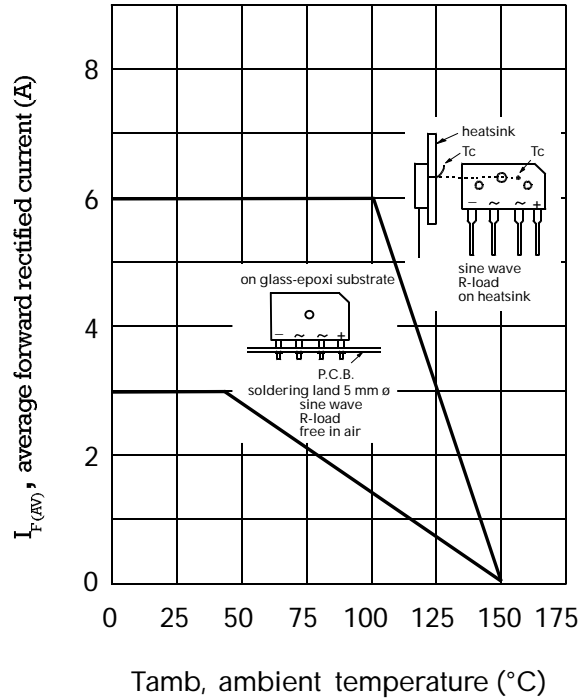
$V_F$	Max. forward voltage drop per diode at $I_F = 3.0 A$	1.05 V
$I_R$	Max. instantaneous reverse current at $V_{RRM}$	5 $\mu A$
$R_{th(j-c)}$	MAXIMUM THERMAL RESISTANCE Junction-Case. With Heatsink.	2.2 °C/W
$R_{th(j-a)}$	Junction-Ambient. Without Heatsink.	22 °C/W

Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

