

## 6 Amp. Glass Passivated Bridge Rectifier

<p>Dimensions in mm.</p> <p>Plastic Case</p>	<p>Voltage 50 to 1000 V.</p> <p>Current 6.0 A.</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>	<ul style="list-style-type: none"> <li>• <b>Glass Passivated Junction Chips.</b></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

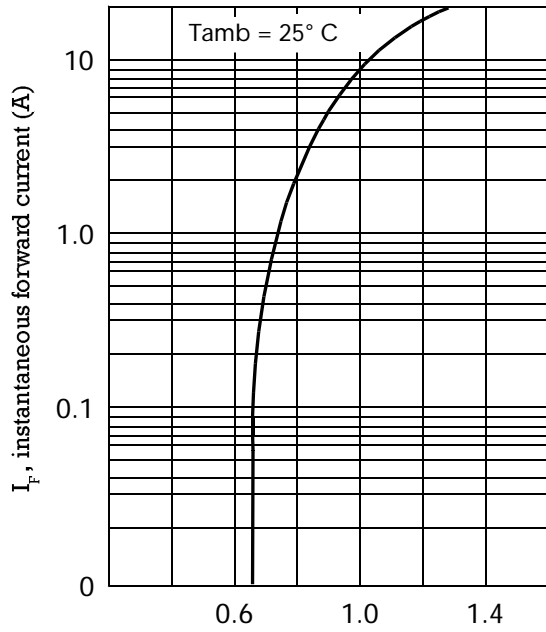
		FBI6A 5M1	FBI6B 5M1	FBI6D 5M1	FBI6G 5M1	FBI6J 5M1	FBI6K 5M1	FBI6M 5M1
$V_{RRM}$	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
$V_{RMS}$	Maximum RMS voltage (V)	35	70	140	280	420	560	700
$I_{F(AV)}$	Max. Average forward current with heatsink without heatsink	6.0 A at 100 °C 3.0 A at 40 °C						
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	175 A						
$I^2t$	Rating for fusing ( $t < 8.3$ ms.)	127 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 $T_{amb} = 25^\circ\text{C}$

$V_F$	Max. forward voltage drop per element at $I_F = 6$ A	1.0V
$I_R$	Max. reverse current per element at $V_{RRM}$	$5\mu\text{A}$
$R_{th(j-c)}$	MAXIMUM THERMAL RESISTANCE Junction-Case. With Heatsink.	2.2 °C/W
$R_{th(j-a)}$	Junction-Ambient. Without Heatsink.	22 °C/W

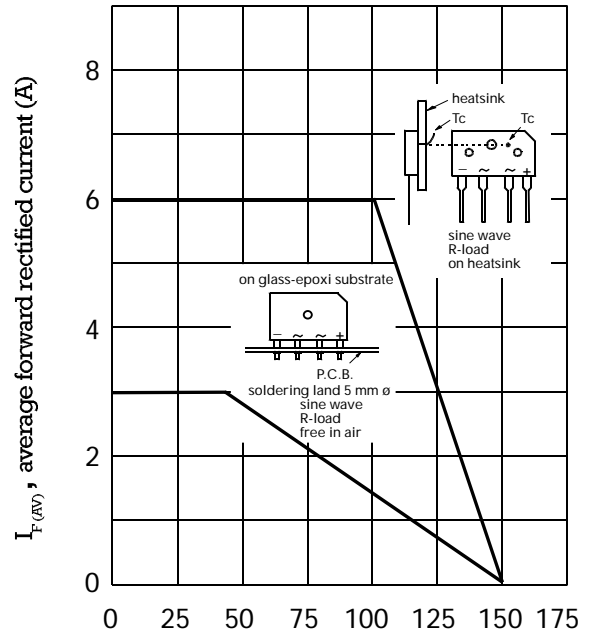
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



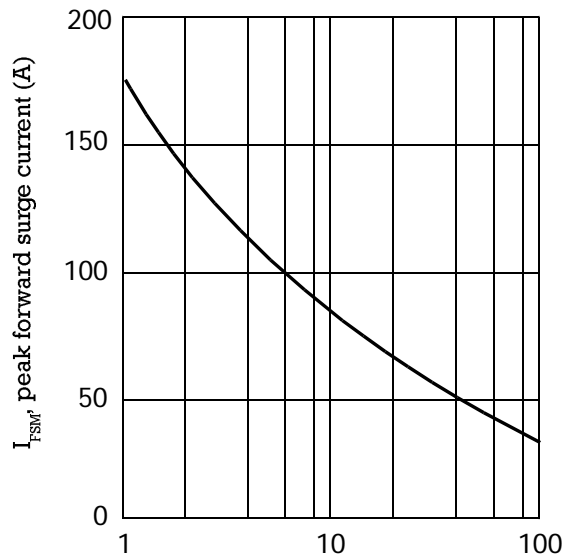
$V_F$ , instantaneous forward voltage (V)

FORWARD CURRENT DERATING CURVE



$T_{amb}$ , ambient temperature ( $^\circ\text{C}$ )

MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



Number of cycles at 60 Hz.