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### Product: Bridge Rectifiers (In Line)

Bridge Rectifiers are key devices in many applications where a rectifier signal is required as Input voltage. Linear Power Supplies, SMPS, Battery Chargers, Electronic Ballast... are some applications where they are used.

Manufactured using HYPERRECTIFIER® technology, we offer these devices in several different packages: SMD, Dual In Line, Round, In Line and Square Power.

Product	Family	$I_{F(AV)}$ (A)	$I_{FSM}$ (A)	$V_{RRM}$ (V)	$V_F$ (V)	OUTLINE
<a href="#">FBI8D5M1</a>	FBI8-5M1	8.0	200	200	1.1	In Line medium



**8 Amp. Glass Passivated Bridge Rectifier**

<p><b>Dimensions in mm.</b></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±0.5</td> <td></td> </tr> <tr> <td>8±0.5</td> <td>-4</td> </tr> </tbody> </table> <p><b>Plastic Case</b></p>	L	suffix	17.5±0.5		8±0.5	-4	<p><b>Voltage</b> 50 to 1000 V</p> <p><b>Current</b> 8.0 A</p>
L	suffix						
17.5±0.5							
8±0.5	-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 E320541.</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**

		<b>FBI8A 5M1</b>	<b>FBI8B 5M1</b>	<b>FBI8D 5M1</b>	<b>FBI8G 5M1</b>	<b>FBI8J 5M1</b>	<b>FBI8K 5M1</b>	<b>FBI8M 5M1</b>
$V_{RRM}$	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 (Jedec Method)	200 A						
$I^2t$	Rating for fusing (t<8.3 ms.)	166 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 Tamb = 25°C**

$V_F$	Max. forward voltage drop per element $I_F = 8 A$	1.1 V
$I_R$	Max. reverse current per element at $V_{RRM}$	5 $\mu A$
	<b>MAXIMUM THERMAL RESISTANCE</b>	
$R_{th(j-c)}$	Junction-Case. With Heatsink.	2.2 °C/W
$R_{th(j-a)}$	Junction-Ambient. Without Heatsink.	22 °C/W