



FBI5B1M1.....FBI5M1M1

5 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm. <table border="1"> <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> • Mounting Instructions • High temperature soldering guaranteed: 260 °C – 10 sc. • Recommended mounting torque: 8 Kg.cm.	L	suffix	17.5		8	-4	Plastic Case Voltage 100 to 1000 V. Current 5.0 A. • 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.
L	suffix						
17.5							
8	-4						

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 ² 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

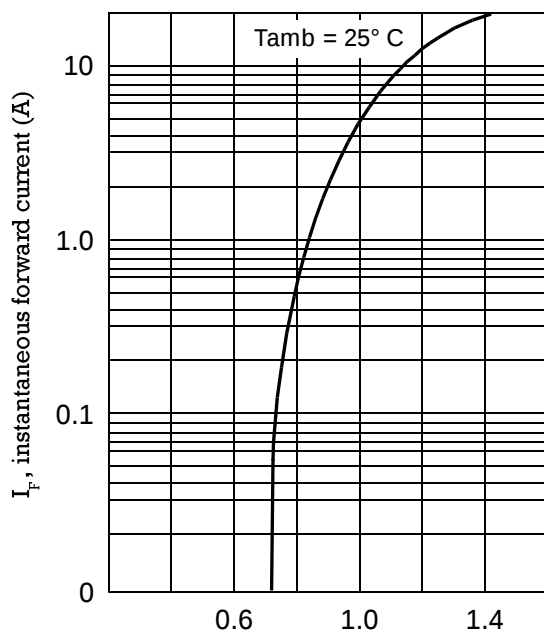
V_F	Max. forward voltage drop per element at $I_F = 5$ A	1.1 V
I_R	Max. reverse current per element at V_{RRM}	5 μ A
$R_{th(j-c)}$	MAXIMUM THERMAL RESISTANCE Junction-Case. With Heatsink.	2.2 °C/W
$R_{th(j-a)}$	Junction-Ambient. Without Heatsink.	22 °C/W



FBI5 - 1M1

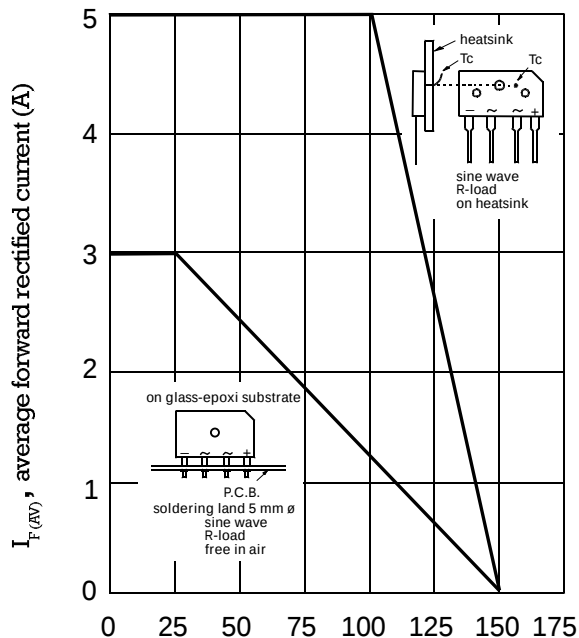
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



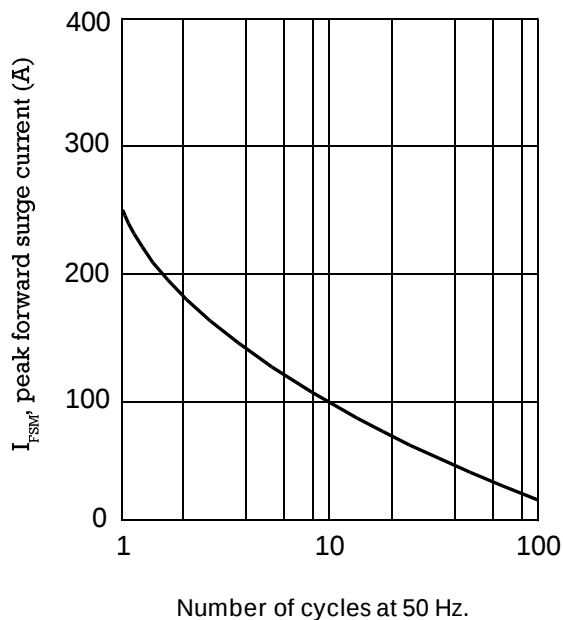
V_F , instantaneous forward voltage (V)

FORWARD CURRENT DERATING CURVE



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

MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



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