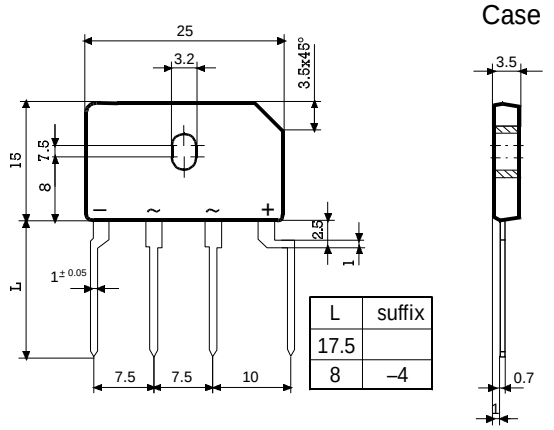
FAGOR

FBI5B1M1.....FBI5M1M1

5 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Plastic Case



L	suffix
17.5	
8	–4

Voltage
100 to 1000 V.

Current
5.0 A.

HYPERECTIFIER®

- **Mounting Instructions**
- High temperature soldering guaranteed: 260 ºC – 10 sc.
- Recommended mounting torque: 8 Kg.cm.

- **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.

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 ºC 3.0 A at 25 ºC					
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 ºC					

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 µA
	MAXIMUM THERMAL RESISTANCE	
$R_{th\ (j-c)}$	Junction-Case. With Heatsink.	2.2 ºC/W
$R_{th\ (j-a)}$	Junction-Ambient. Without Heatsink.	22 ºC/W

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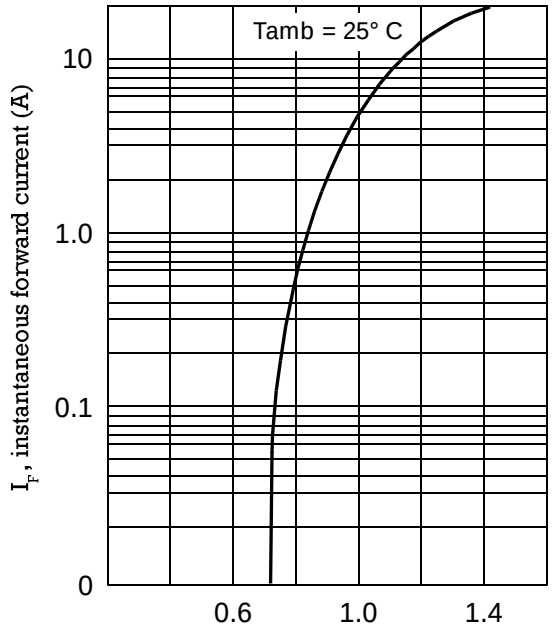
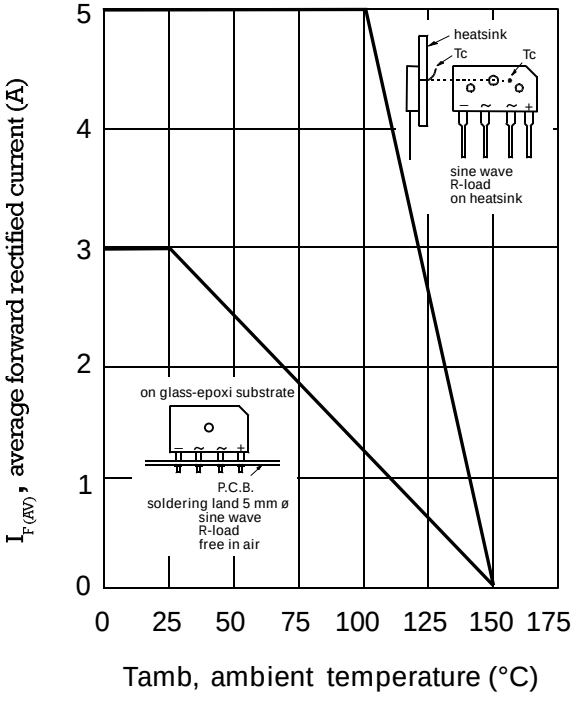
Characteristic Curves

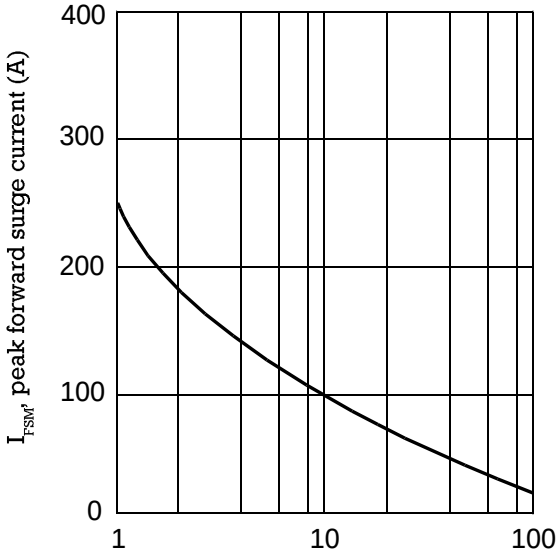
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



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