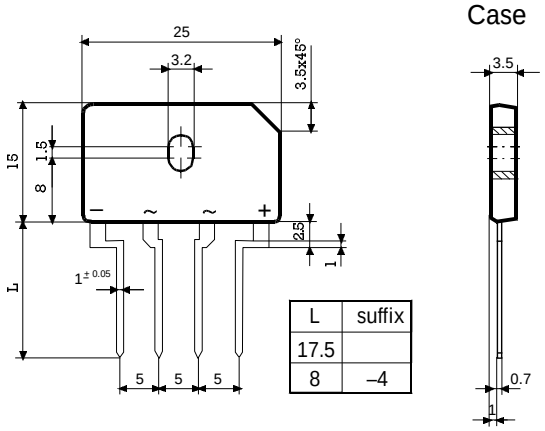
6 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Plastic Case



L	suffix
17.5	
8	–4

Voltage
50 to 1000 V.

Current
6.0 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

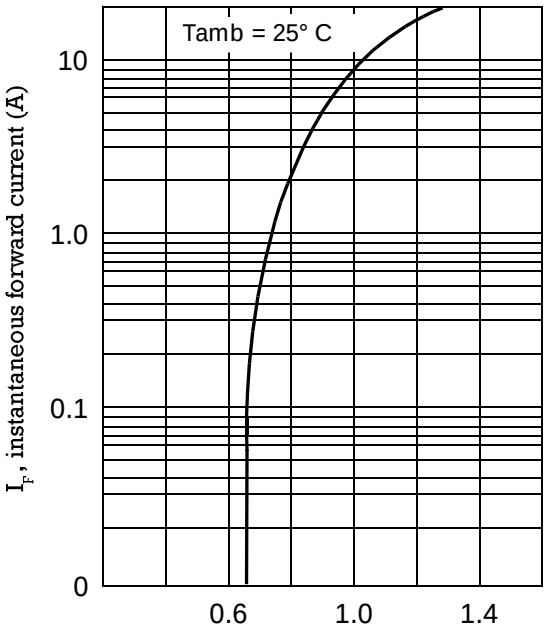
		FBI6A 5M1	FBI6B 5M1	FBI6D 5M1	FBI6G 5M1	FBI6J 5M1	FBI6K 5M1	FBI6M 5M1
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
V_{RMS}	Maximum RMS voltage (V)	35	70	140	280	420	560	700
$I_{F(AV)}$	Max. Average forward current with heatsink without heatsink	6.0 A at 100 ºC 3.0 A at 40 ºC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

Electrical Characteristics at Tamb = 25°C

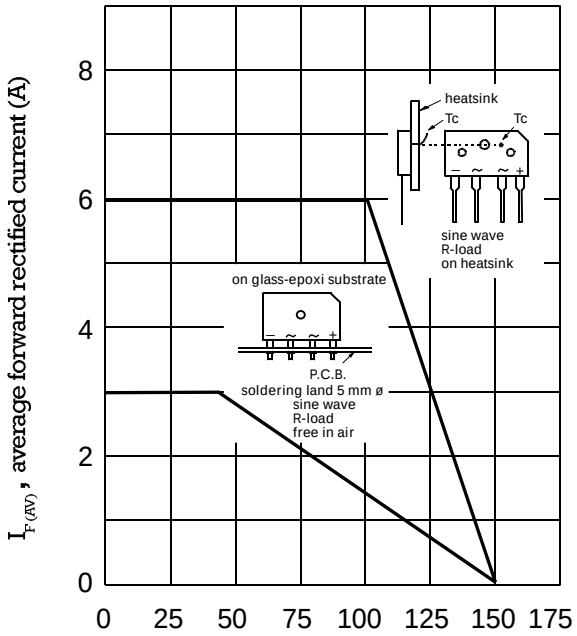
V_F	Max. forward voltage drop per element at I_F = 6 A	1.0 V
I_R	Max. reverse current per element at V_{RRM}	5 μA
$R_{th\ (j-c)}$ $R_{th\ (j-a)}$	MAXIMUM THERMAL RESISTANCE Junction-Case. With Heatsink. Junction-Ambient. Without Heatsink.	 2.2 ºC/W 22 ºC/W

Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT