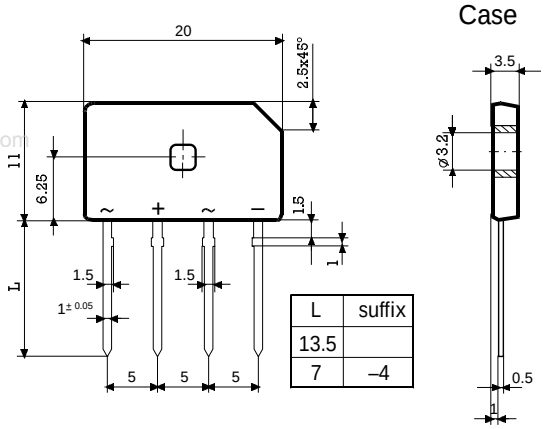
1.5 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Plastic Case



L	suffix
13.5	
7	–4

Voltage
100 to 1000 V.

Current
1.5 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.).
- The plastic material carries U/L recognition 94 V-O.

Maximum Ratings, according to IEC publication No. 134

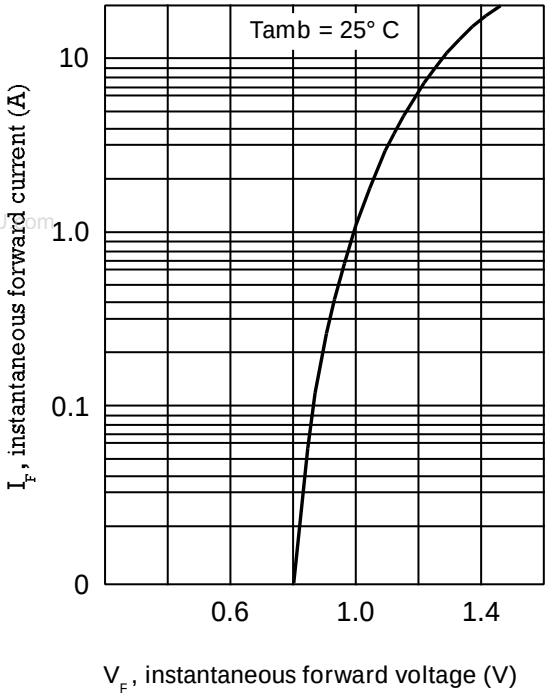
		FBI1.5B 5S2	FBI1.5D 5S2	FBI1.5F 5S2	FBI1.5J 5S2	FBI1.5L 5S2	FBI1.5M 5S2
V_{RRM}	Peak Recurrent Reverse Voltage (V)	100	200	300	600	900	1000
V_{RMS}	Maximum RMS Voltage (V)	70	140	210	420	630	700
V_R	Recommended Input Voltage (V)	40	80	125	250	380	500
$I_{F(AV)}$	Max. Average forward current with heatsink without heatsink	4.0 A at 65 ºC 1.5 A at 25 ºC					
I_{FRM}	Recurrent peak forward current	10 A					
I_{FSM}	10 ms. peak forward surge current	50 A					
I^2t	I^2t value for fusing (t = 10 ms)	12 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

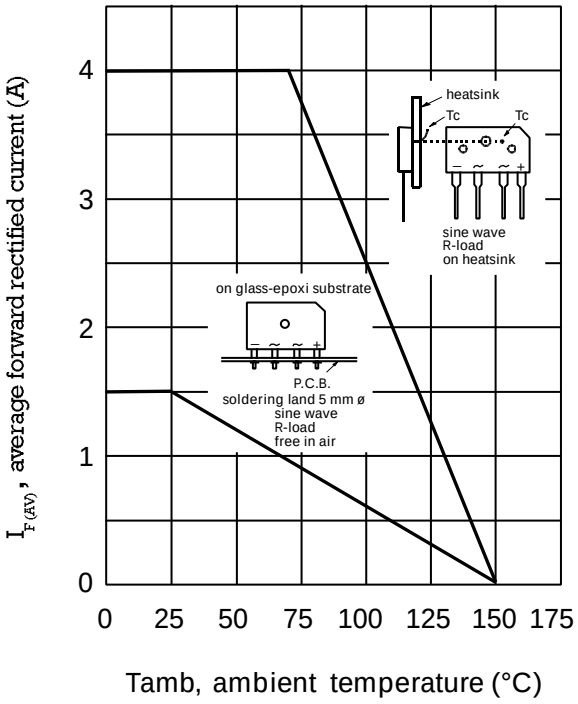
V_F	Max. forward voltage drop per element at I_F = 1 A	1.1 V
I_R	Max. reverse current per element at V_{RRM}	5 µ A
	MAXIMUM THERMAL RESISTANCE	
$R_{th\ (j-c)}$	Junction-Case. With Heatsink.	12 ºC/W
$R_{th\ (j-a)}$	Junction-Ambient. Without Heatsink.	45 ºC/W

Characteristic Curves

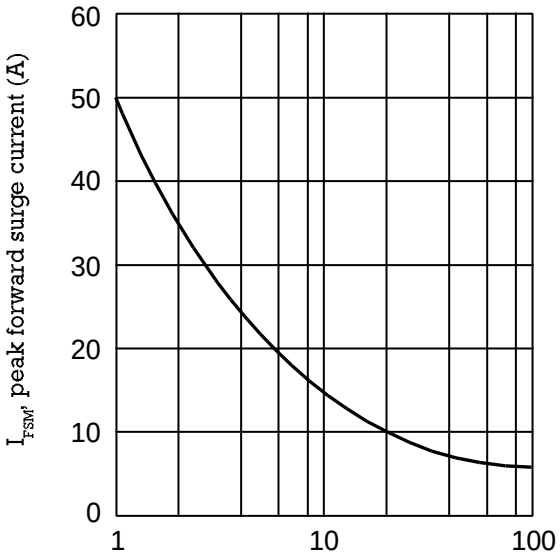
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



Jan - 00