

6 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

L	suffix
17.5	
8	-4

Plastic Case

Voltage
50 to 1000 V.

Current
6.0 A.

HYPERECTIFIER®

- 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-0.

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 °C 3.0 A at 40 °C						
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	175 A						
I ² t	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 _{std}	Storage temperature range	– 55 to +150 °C						

Electrical Characteristics at Tamb = 25°C

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

Characteristic Curves

