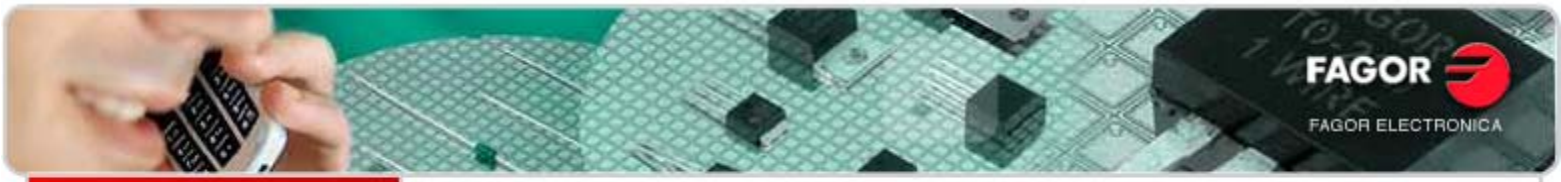


Product: Bridge Rectifiers (In Line)

Bridge Rectifiers are key devices in many applications where a rectifier signal is required as Input voltage. Linear Power Supplies, SMPS, Battery Chargers, Electronic Ballast... are some applications where they are used.

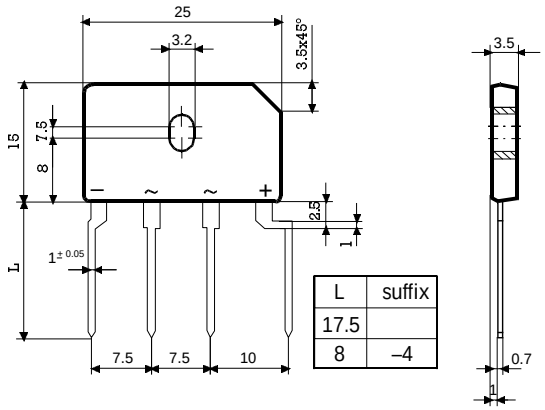
Manufactured using HYPERECTIFIER© technology, we offer these devices in several different packages: SMD, Dual In Line, Round, In Line and Square Power.

Product	Family	$I_{F(AV)}$(A)	I_{FSM}(A)	V_{RRM}(V)	V_F(V)	OUTLINE
FBI6D1M1	FBI6-1M1	6.0	170	200	1.05	In Line medium

6 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Plastic Case



L	suffix
17.5	
8	–4

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

Voltage 50 to 1000 V.

Current 6.0 A.

HYPERECTIFIER®

- Glass Passivated Junction Chips.
- UL recognized under component index file number E320541.
- 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 1M1	FBI6B 1M1	FBI6D 1M1	FBI6G 1M1	FBI6J 1M1	FBI6K 1M1	FBI6M 1M1
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}	10 ms. peak forward surge current (Jedec Method)	170 A						
I^2t	Current squared time (rating for fusing) (1ms.<t<10ms. Tc = 25ºC)	140 A^2 sec						
V_{DIS}	Dielectric strength (terminals to case, AC 1 min.)	2000 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 diode at I_F = 3.0 A	1.05V
I_R	Max. instantaneous reverse current at V_{RRM}	5µA
	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