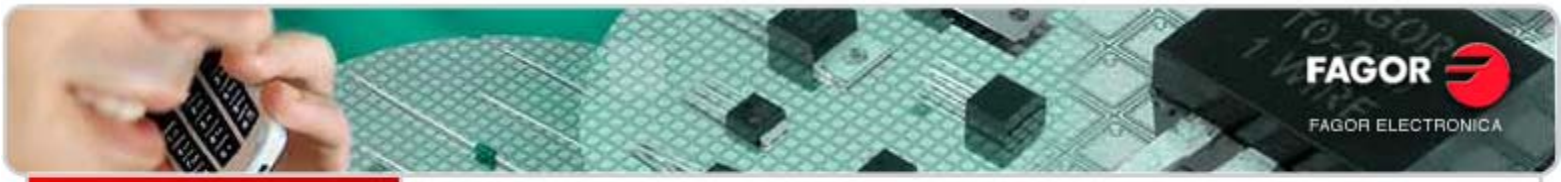


Product: Bridge Rectifiers (In Line)

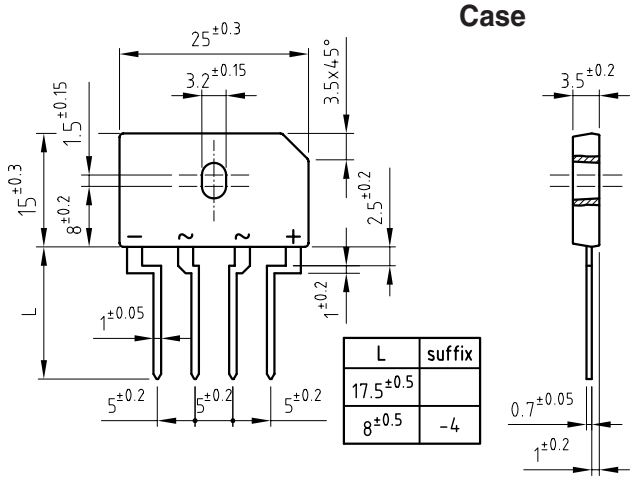
Bridge Rectifiers are key devices in many applications where a rectifier signal is required as Input voltage. Linear Power Supplies, SMPS, Battery Chargers, Electronic Ballast... are some applications where they are used.

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
FBI8J5M1	FBI8-5M1	8.0	200	600	1.1	In Line medium

8 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm. **Plastic Case**



Voltage 50 to 1000 V

Current 8.0 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 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

		FBI8A 5M1	FBI8B 5M1	FBI8D 5M1	FBI8G 5M1	FBI8J 5M1	FBI8K 5M1	FBI8M 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	8.0 A at 100 °C 3.0 A at 40 °C						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	200 A						
I^2t	Rating for fusing (t<8.3 ms.)	166 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 °C						

Electrical Characteristics at Tamb = 25°C

V_F	Max. forward voltage drop per element I_F = 8 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 °C/W
$R_{th\ (j-a)}$	Junction-Ambient. Without Heatsink.	22 °C/W