semiconductors :: product :: Bridge Rectifiers (In Line)

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.

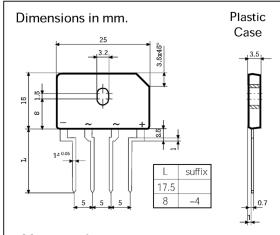
Manufactured using HYPERECTIFIER© technology, we offer these devices in several different packages: SMD, Dual In Line, Round, In Line and Square Power.

Product	Family	$I_{F(AV)}(A)$	$I_{FSM}(A)$	$V_{RRM}(V)$	$V_F(V)$	OUTLINE
FBI4D5M1	FBI4-5M1	4.0	150	200	1.0	In line medium

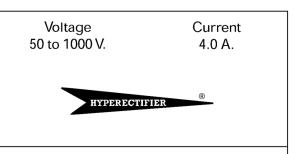




4 Amp. Glass Passivated Bridge Rectifier



- Mounting Instructions
- High temperature soldering guaranteed: 260 $^{\circ}$ C 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

		FBI4A 5M1	FBI4B 5M1	FBI4D 5M1	FBI4G 5M1	FBI4J 5M1	FBI4K 5M1	FBI4M 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		4.0 A at 100 °C 3.0 A at 40 °C							
IFSM	8.3 ms. peak forward surge current		150 A							
l ² t	Rating for fusing (t<8.3 ms.)		93 A ² sec							
V _{DIS}	Dielectric strength (terminals to case, AC 1 min.)		1500 V							
Tj	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 at $I_F = 4 \text{ A}$	1.0V
	I_R	Max. reverse current per element at $\boldsymbol{V}_{\text{RRM}}$	5μΑ
Г		MAXIMUM THERMAL RESISTANCE	
	R _{th (j-c)}	Junction-Case. With Heatsink.	5 °C/W
	R _{th (j-a)}	Junction-Ambient. Without Heatsink.	22 °C/W