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

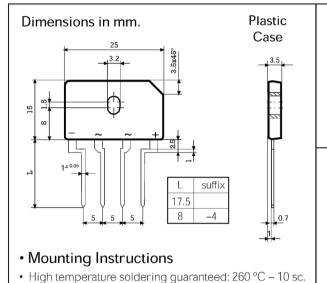


Current

4.0 A.



# 4 Amp. Glass Passivated Bridge Rectifier



- HYPERECTIFIER
- · Glass Passivated Junction Chips.
- UL recognized under component index file number E320541.
- Lead and polarity identifications.
- Case: Molded Plastic.

Voltage

50 to 1000 V.

- Ideal for printed circuit board (P.C.B.).
- High surge current capability.
- The plastic material carries U/L recognition 94 V-O.

## Recommended mounting torque: 8 Kg.cm.

## Maximum Ratings, according to IEC publication No. 134

		FBI4A 5M1	FBI4B 5M1	FBI4D 5M1	FBI4G 5M1	FBI4J 5M1	FBI4K 5M1	FBI4M 5M1		
V <sub>RRM</sub>	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000		
V <sub>RMS</sub>	Maximum RMS voltage (V)	35	70	140	280	420	560	700		
I <sub>F(AV)</sub>	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 <sup>2</sup> t	Rating for fusing (t<8.3 ms.)		93 A <sup>2</sup> sec							
V <sub>DIS</sub>	Dielectric strength (terminals to case, AC 1 min.)		1500 V							
T <sub>j</sub>	Operating temperature range		− 55 to + 150 °C							
T <sub>stg</sub>	Storage temperature range		− 55 to +150 °C							

#### Electrical Characteristics at Tamb = 25°C

$V_{\rm F}$	Max. forward voltage drop per element at $I_F = 4 \text{ A}$	1.0V
I <sub>R</sub>	Max. reverse current per element at $V_{\mbox{\tiny RRM}}$	5μΑ
	MAXIMUM THERMAL RESISTANCE	
R <sub>th (j-c)</sub>	Junction-Case. With Heatsink.	5 °C/W
R <sub>th (j-a)</sub>	Junction-Ambient. Without Heatsink.	22 °C/W