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.

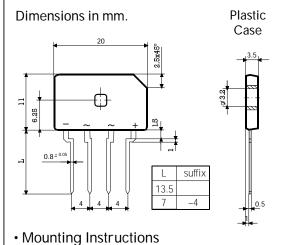
Manufactured using HYPERECTIFIER© technology, we offer these devices in several different packages: SMD, Dual In Line, Round, In Line and Square Power.

Product	Family	$I_{F(AV)}(A)$	$I_{FSM}(A)$	$V_{RRM}(V)$	$V_F(V)$	OUTLINE
FBI2D4S1	FBI2-4S1	2.0	60	200	1.0	In Line small

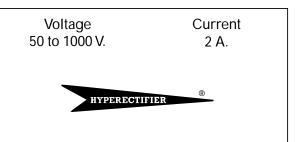




2 Amp. Glass Passivated Bridge Rectifier



- High temperature soldering guaranteed: 260 °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.).
- The plastic material carries U/L recognition 94 V-O.

Maximum Ratings, according to IEC publication No. 134

		FBI2A 4S1	FBI2B 4S1	FBI2D 4S1	FBI2G 4S1	FBI2J 4S1	FBI2K 4S1	FBI2M 4S1		
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		4.5 A at 65 °C 2.0 A at 25 °C							
I _{FSM}	8.3 ms. peak forward surge current		60 A							
I ² t	Rating for fusing (t<8.3 ms.)		15 A ² sec							
VDIS	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 at $I_F = 2 A$	1.0 V
I _R	Max. reverse current per element at V_{RRM}	5μΑ
	MAXIMUM THERMAL RESISTANCE	
R _{th (j-c)}	Junction-Case. With Heatsink.	12 °C/W
R _{th (j-a)}	Junction-Ambient. Without Heatsink.	40 °C/W