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.

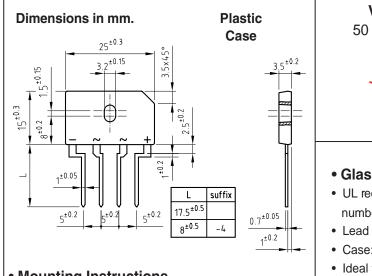
Manufactured using HYPERECTIFIER© technology, we offer these devices in several different packages: SMD, Dual In Line, Round, In Line and Square Power.

Product	Family	I _{F(AV)} (A)	$I_{FSM}(A)$	$V_{RRM}(V)$	$V_F(V)$	OUTLINE
FBI8D5M1	FBI8-5M1	8.0	200	200	1.1	In Line medium

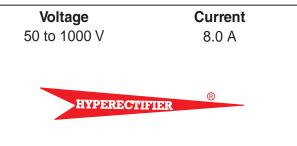




8 Amp. Glass Passivated Bridge Rectifier



- Mounting Instructions
- 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.).
- · 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		
		SIVIT	SIVIT	SIVII	DIVIT	SIVI I	JIVI I	SIVII		
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		8.0 A at 100 °C							
	without heatsink		3.0 A at 40 °C							
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)		200 A							
I ² t	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 $I_F = 8 \text{ A}$	1.1 V
I _R	Max. reverse current per element at $V_{\mbox{\tiny RRM}}$	5 μΑ
	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