

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

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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.

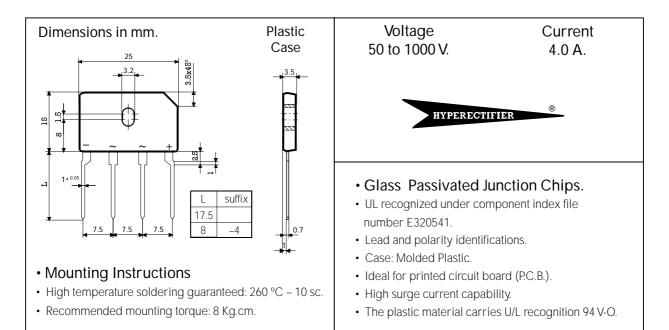
Product	Family	I _{F(AV)} (A)	I _{FSM} (A)	V _{RRM} (V)	V _F (V)	OUTLINE
FBI4M7M1	FBI4-7M1	4.0	150	1000	0.95	In Line medium





FBI4A7M1......FBI4M7M1

4 Amp. Glass Passivated Bridge Rectifier



Maximum Ratings, according to IEC publication No. 134

		FBI4A 7M1	FBI4B 7M1	FBI4D 7M1	FBI4G 7M1	FBI4J 7M1	FBI4K 7M1	FBI4M 7M1	
Vrrm	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000	
Vrms	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						
FSM	10 ms. peak forward surge current (Jedec Method)		150 A						
l ² t	Current squared time (rating for fusing) (1ms. <t<10ms. tc="25°C)</td"><td colspan="7">110 A² sec</td></t<10ms.>		110 A ² sec						
Vdis	5 Dielectric strength (terminals to case, AC 1 min.)		2000 V						
T	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 diode at $I_F = 2.0 \text{ A}$	0.95 V
I _R	Max. reverse current at V _{RRM}	5μΑ
	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