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## 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.

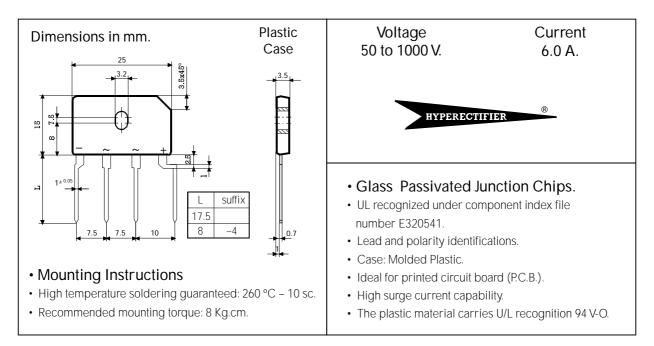
Manufactured using HYPERECTIFIER© technology, we offer these devices in several different packages: SMD, Dual In Line, Round, In Line and Square Power.

Product	Family	I <sub>F(AV)</sub> (A)	I <sub>FSM</sub> (A)	V <sub>RRM</sub> (V)	V <sub>F</sub> (V)	OUTLINE
FBI6J1M1	FBI6-1M1	6.0	170	600	1.05	In Line medium





## 6 Amp. Glass Passivated Bridge Rectifier



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

		FBI6A 1M1	FBI6B 1M1	FBI6D 1M1	FBI6G 1M1	FBI6J 1M1	FBI6K 1M1	FBI6M 1M1	
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 <sub>F(AV)</sub>	Max. Average forward current with heatsink without heatsink		6.0 A at 100 °C 3.0 A at 40 °C						
FSM	10 ms. peak forward surge current (Jedec Method)		170 A						
l²t	Current squared time (rating for fusing) (1ms. <t<10ms. tc="25°C)&lt;/td"><td colspan="7">140 A<sup>2</sup> sec</td></t<10ms.>		140 A <sup>2</sup> sec						
Vdis	Dielectric strength (terminals to case, AC 1 min.)		2000 V						
Tj	Operating temperature range		– 55 to + 150 °C						
T <sub>stg</sub>	tg Storage temperature range		– 55 to +150 °C						

## Electrical Characteristics at Tamb = 25°C

V <sub>F</sub>	Max. forward voltage drop per diode at $\rm I_{\rm F}=3.0~\rm A$	1.05 V
I <sub>R</sub>	Max. instantaneous reverse current at $V_{\text{\tiny RRM}}$	5μΑ
	MAXIMUM THERMAL RESISTANCE	
R <sub>th (j-c)</sub>	Junction-Case. With Heatsink.	2.2 °C/W
R <sub>th (j-a)</sub>	Junction-Ambient. Without Heatsink.	22 °C/W