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semiconductors :: product :: **Bridge Rectifiers (Power)**

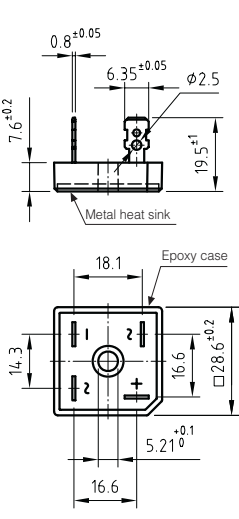
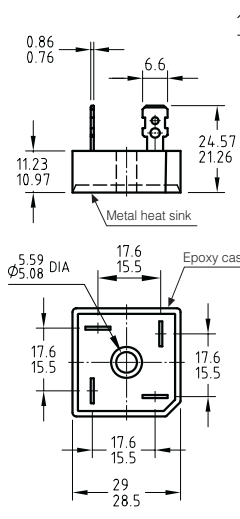
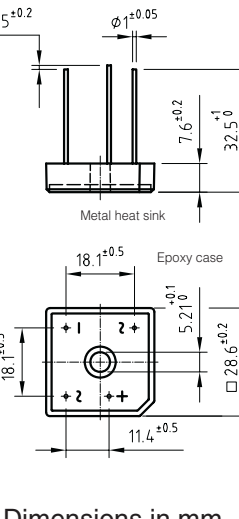

### **Product: Bridge Rectifiers (Power)**

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 HYPERRECTIFIER© 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
<a href="#">FB1510L-B500/440-15L</a>	FB15-L	15.0	300	1000	1.1	Power - Wire leads

## 15 Amp. Glass Pasivated Bridge Rectifiers

Power	Power M	Power L	Voltage 50 to 1000 V	Current 15 A
				
Dimensions in mm.			<ul style="list-style-type: none"> <li>• Glass Passivated Junction</li> <li>• UL recognized under component index file number E320541.</li> <li>• Terminals: FASTON ①</li> <li>• Terminals: WIRE LEADS ②</li> <li>• Max. Mounting torque: 25 Kg x cm</li> </ul> <p>Lead and polarity identifications High surge current capability</p>	

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

		①	FB1500	FB1501	FB1502	FB1504	FB1506	FB1508	FB1510
		②	FB1500L	FB1501L	FB1502L	FB1504L	FB1506L	FB1508L	FB1510L
		①	FB1500M	FB1501M	FB1502M	FB1504M	FB1506M	FB1508M	FB1510M
$V_{RRM}$	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
$V_R$	Recommended Input Voltage (V)		20	40	80	125	250	380	500
$I_F(AV)$	Max. Forward Current R-load: At T case = 55 °C At T case = 90 °C With Al Square Chassis (200 cm <sup>2</sup> x 3 mm.) Tamb = 45 °C		15 A 10 A 8 A						
$I_{FRM}$	Recurrent Peak Forward Current		60 A						
$I_{FSM}$	10 ms. Peak Forward Current		300 A						
$I^2t$	$I^2t$ value for fusing (t = 10ms)		450 A <sup>2</sup> sec						
$T_j$	Operating junction 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 $I_F = 7.5$ A	1.1 V
$I_R$	Maximum reverse current per element at $V_{RRM}$ d.c.	5 $\mu$ A
$R_{thj-C}$	Typical thermal resistance junction to case	1.4 °C/W
	Isolation voltage from case to leads	2500 Vac