

semiconductors

company

product

sales network

site index

contact us

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

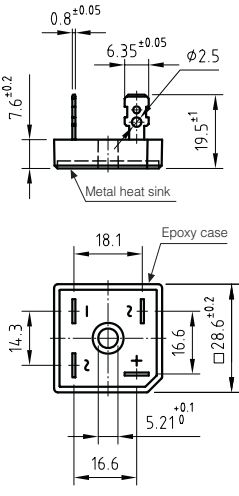
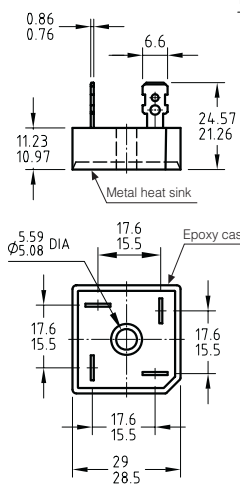
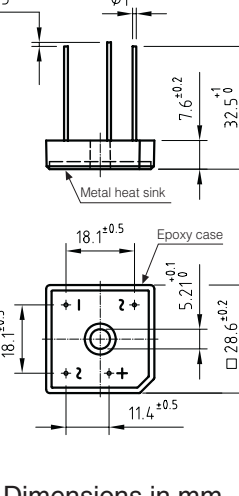

### **Product: Bridge Rectifiers (Power)**

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="#">FB2510-B500/440-25</a>	FB25	25.0	300	1000	1.1	Power - Faston

## 25 Amp. Glass Pasivated Bridge Rectifiers

Power	Power M	Power L	Voltage 50 to 1000 V	Current 25 A
				<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> Lead and polarity identifications High surge current capability
Dimensions in mm.				

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

		①	FB2500	FB2501	FB2502	FB2504	FB2506	FB2508	FB2510
		②	FB2500L	FB2501L	FB2502L	FB2504L	FB2506L	FB2508L	FB2510L
		①	FB2500M	FB2501M	FB2502M	FB2504M	FB2506M	FB2508M	FB2510M
$V_{RRM}$	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		25 A 17 A 10 A						
$I_{FRM}$	Recurrent Peak Forward Current		75 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 $I_F = 12.5$ 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