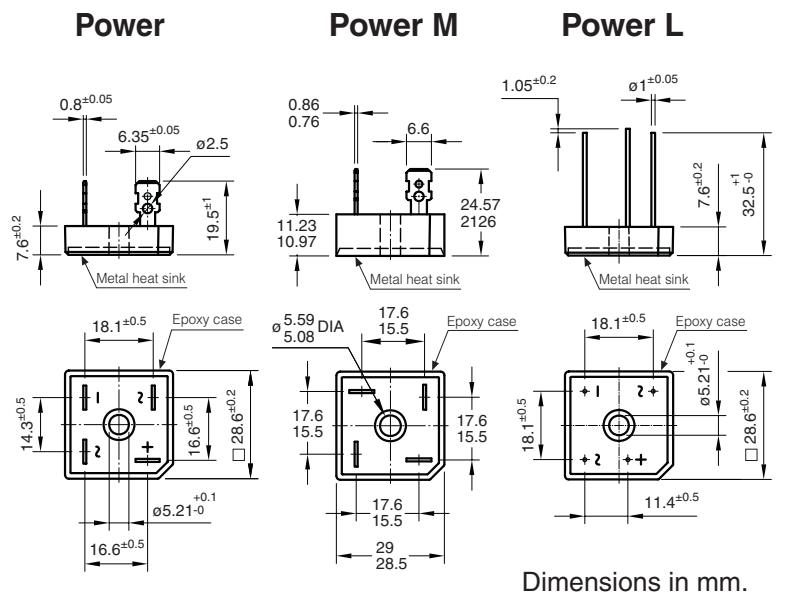
FB3500.....FB3510
FB3500L.....FB3510L
FB3500M.....FB3510M

35 Amp. Glass Pasivated Bridge Rectifiers



Voltage 50 to 1000 V

Current 35 A

HYPERECTIFIER®

- Glass Passivated Junction
- UL recognized under component index file number E320541.
- Terminals: FASTON ①
- Terminals: WIRE LEADS ②
- Max. Mounting torque: 25 Kg x cm

Lead and polarity identifications
High surge current capability

Maximum Ratings, according to IEC publication No. 134

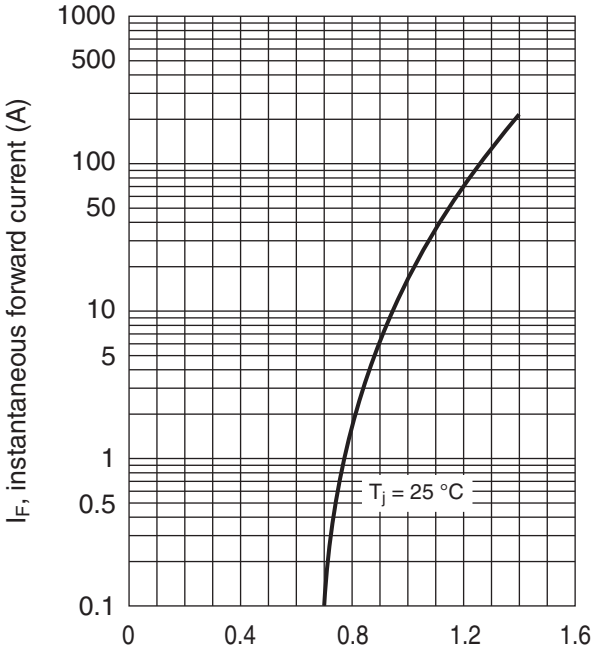
		① FB3500	FB3501	FB3502	FB3504	FB3506	FB3508	FB3510
		② FB3500L	FB3501L	FB3502L	FB3504L	FB3506L	FB3508L	FB3510L
		① FB3500M	FB3501M	FB3502M	FB3504M	FB3506M	FB3508M	FB3510M
V_{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	35	70	140	280	420	560	700
V_R	Recommended Input Voltage (V)	20	40	80	125	250	380	500
$I_{F\ (AV)}$	Max. Forward Current R-load: At T case = 55 °C	35 A						
	At T case = 90 °C	20 A						
	With Al Square Chassis (200 cm^2 x 3 mm.) Tamb = 45 °C	12 A						
I_{FRM}	Recurrent Peak Forward Current	75 A						
I_{FSM}	10 ms. Peak Forward Current	400 A						
I^2t	I^2t value for fusing (t = 10ms)	800 A^2sec						
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

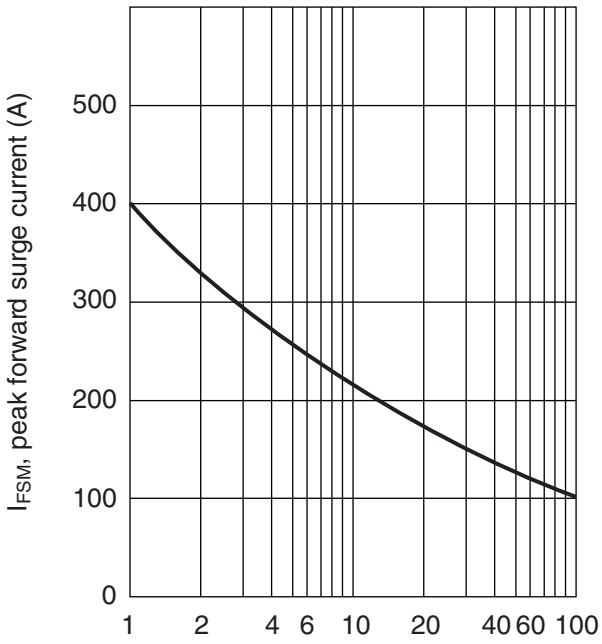
V_F	Max. forward voltage drop per element at I_F = 17.5 A	1.1 V
I_R	Maximum reverse current per element at V_{RRM} d.c.	5 µA
R_{thj-C}	Typical thermal resistance junction to case	1.3 °C/W
	Isolation voltage from case to leads	2500 Vac

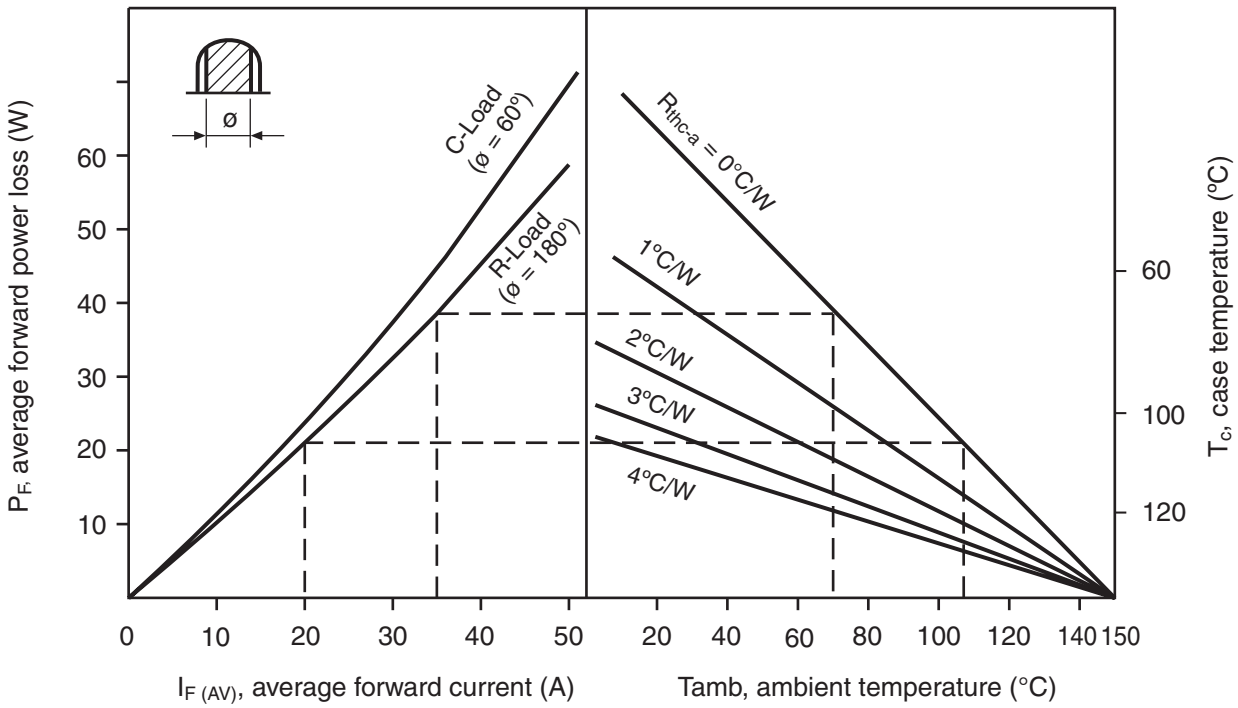
Charactarestic Curves

TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT





Interrelation between power dissipation and the max. allowable ambient temperature.