

35 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Technical drawings of the E130180 rectifier showing dimensions in mm:

- Top view: Metal heat sink, Ø 2.5, Ø 1.05, 19.5 ± 1, 6.35 ± 0.05, 0.8 ± 0.05.
- Side view: Metal heat sink, Ø 1.05, 32.8 ± 1, 7.6 ± 0.2.
- Front view: Epoxy case, 18.1, 14.3, 16.6, 28.6 ± 0.2, Ø 5.21 ± 0.1, 16.6.
- Back view: Epoxy case, 18.1 ± 0.5, 18.1 ± 0.5, 11.4 ± 0.5, 28.6 ± 0.3, Ø 5.21 ± 0.1, 11.4 ± 0.5.

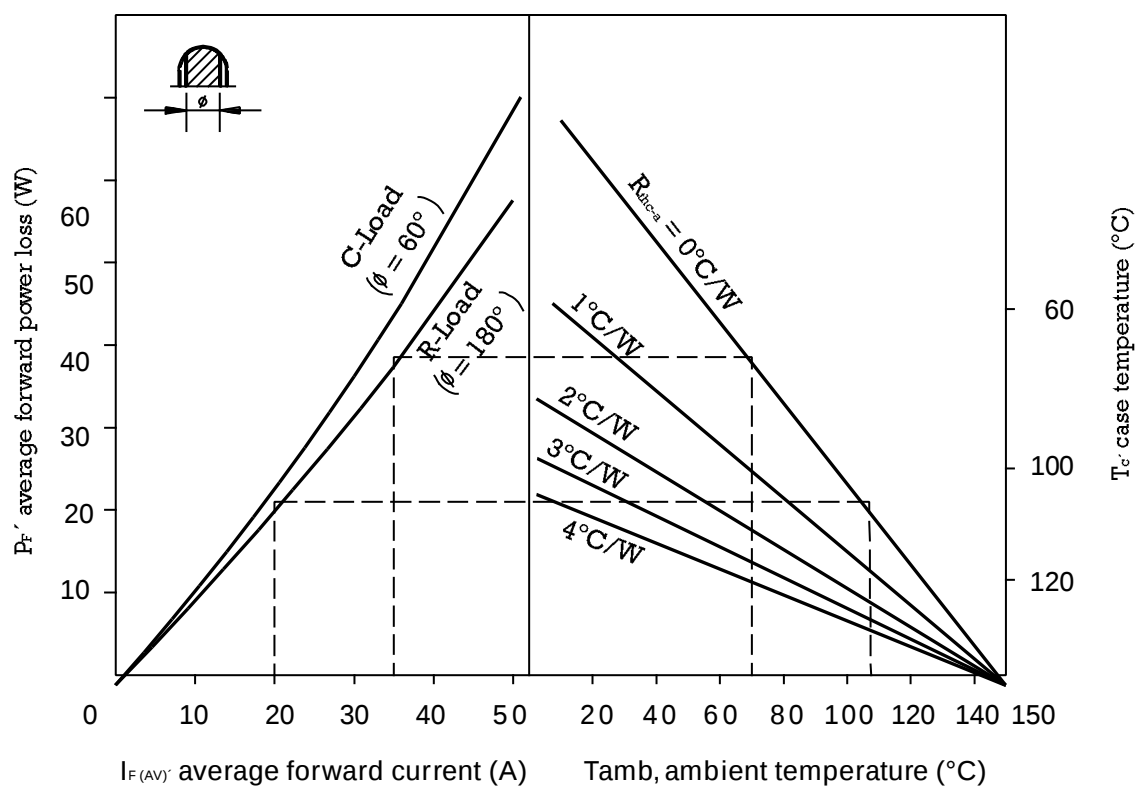
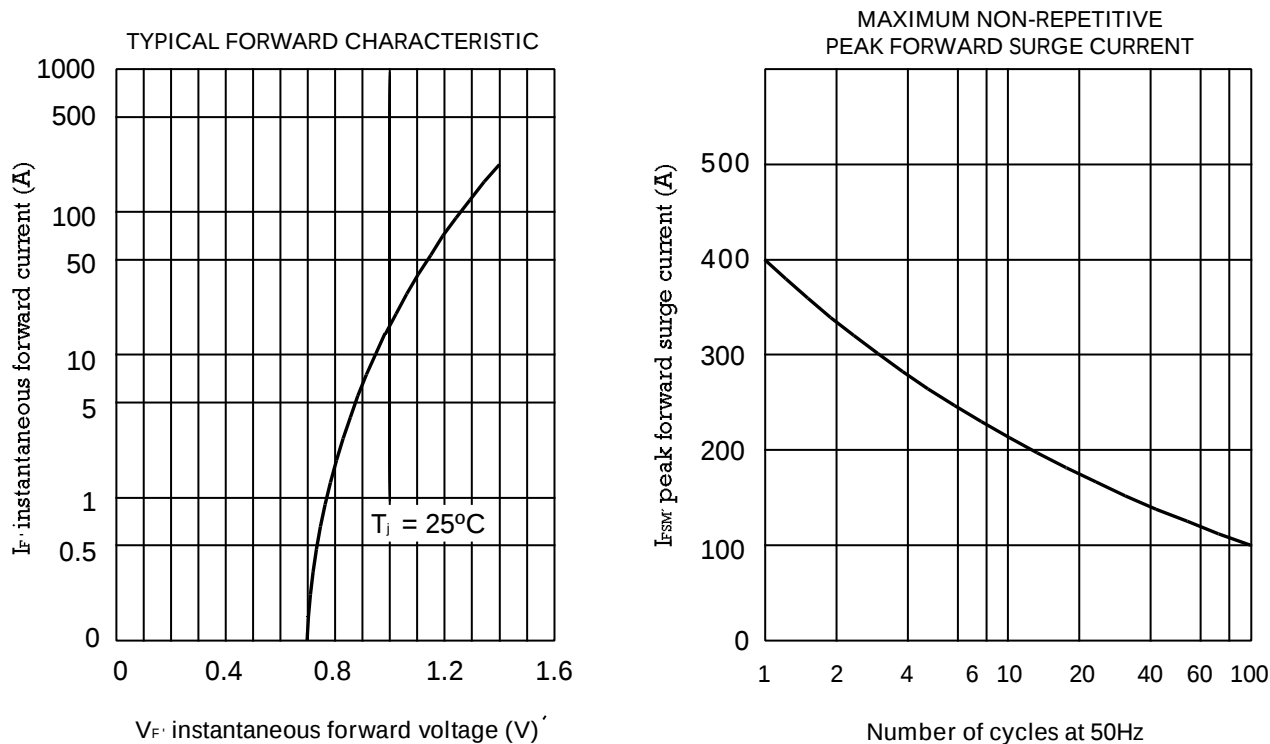
Maximum Ratings, according to IEC publication No. 134

		①	FB3500	FB3501	FB3502	FB3504	FB3506	FB3508	FB3510
		②	FB3500L	FB3501L	FB3502L	FB3504L	FB3506L	FB3508L	FB3510L
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 cm² x 3 mm.) Tamb = 45 °C	35 A 20 A 12 A							
I _{FRM}	Recurrent peak forward current	75 A							
I _{FSM}	10 ms. peak forward current	400 A							
I²t	I²t value for fusing (t = 10 ms)	800 A²sec							
T _j	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 element at $I_F = 17.5$ A	1.1 V
I_R	Max. reverse current per element at V_{RRM} d.c.	5 μ A
R_{thj-c}	Typical thermal resistance junction to case	1.3 °C/W
	Isolation voltage from case to leads	2500 Vac

Characteristic Curves



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