

35 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Technical drawings of the E130180 diode showing dimensions in mm:

- Side view: Heat sink width 0.8 ± 0.05, diode width 6.35 ± 0.05, diode diameter Ø 2.5, heat sink height 7.6 ± 0.2, total height 19.5 ± 1.
- Top view: Heat sink width 0.8 ± 0.05, diode width 6.35 ± 0.05, diode diameter Ø 2.5, heat sink height 7.6 ± 0.2, total height 19.5 ± 1.
- Perspective view 1: Heat sink width 0.8 ± 0.05, diode width 6.35 ± 0.05, diode diameter Ø 2.5, heat sink height 7.6 ± 0.2, total height 19.5 ± 1.
- Perspective view 2: Heat sink width 0.8 ± 0.05, diode width 6.35 ± 0.05, diode diameter Ø 2.5, heat sink height 7.6 ± 0.2, total height 19.5 ± 1.

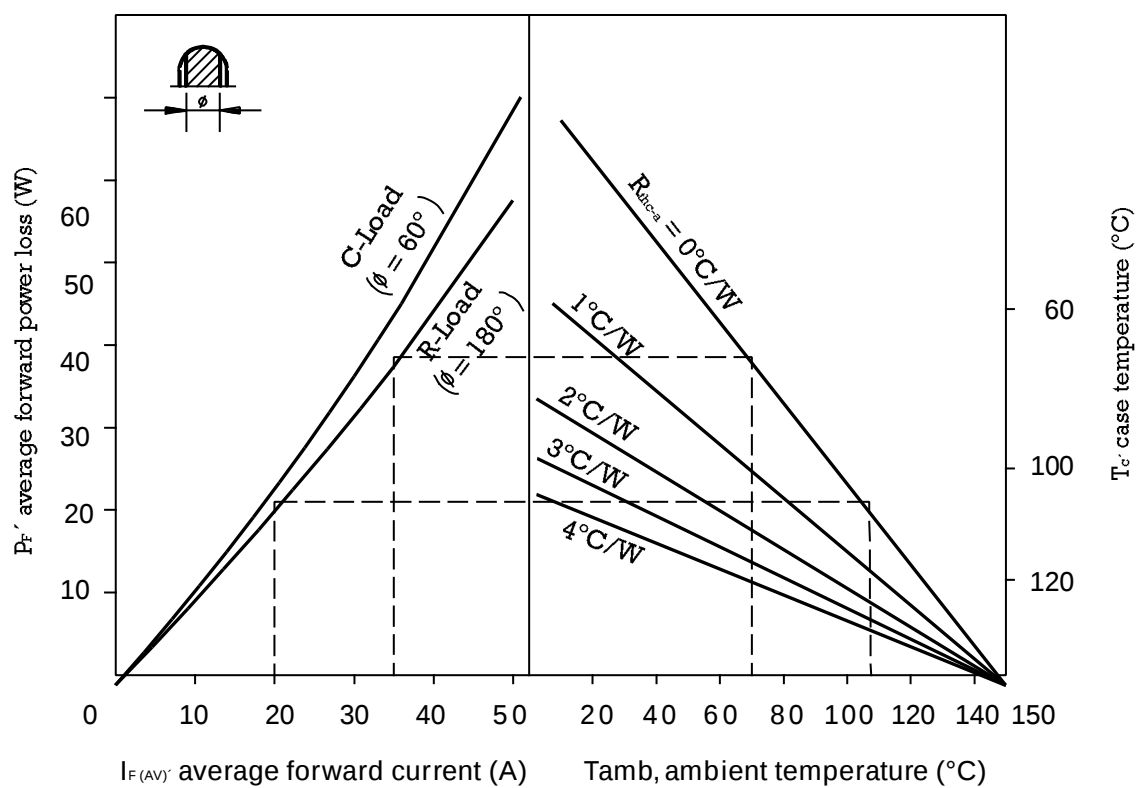
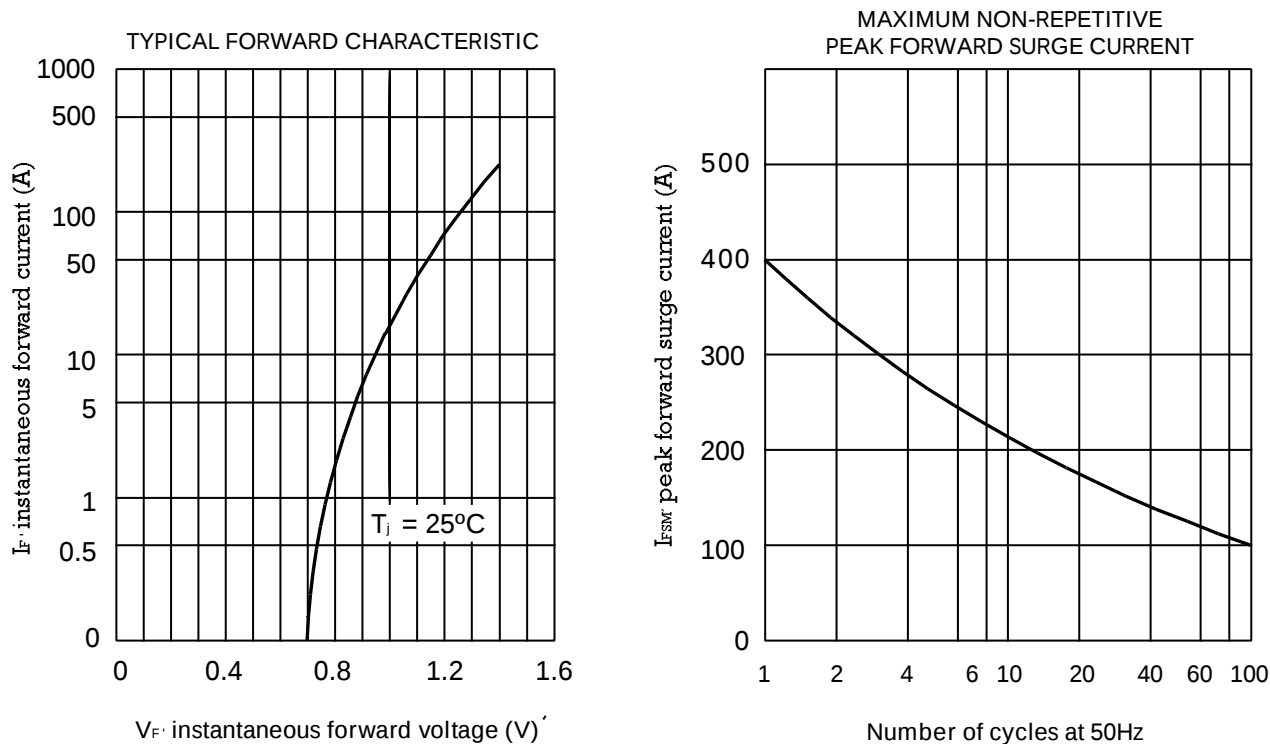
Maximum Ratings, according to IEC publication No. 134

		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 cm ² 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							
I^2t	I^2t value for fusing (t = 10 ms)	800 A ² sec							
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.