

10 Amp. Glass Passivated Bridge Rectifier

Dimensions in mm.

Technical drawings showing dimensions in mm for the E130180 diode. The drawings include side and top views of the component, showing the metal heat sink, epoxy case, and mounting dimensions.

Key dimensions shown:

- Base width: 19.9 ± 1 mm
- Mounting hole diameter: $\varnothing 2.5$ mm
- Mounting hole offset: 6.35 ± 0.05 mm
- Base height: 7.6 ± 0.2 mm
- Case width: 18.1 mm
- Case height: 14.3 mm
- Central feature diameter: $\varnothing 5.21 \pm 0.1$ mm
- Case thickness: 28.6 ± 0.2 mm
- Mounting hole diameter (top view): $\varnothing 5.21 \pm 0.1$ mm
- Mounting hole offset (top view): 11.4 ± 0.5 mm
- Case width (top view): 18.1 ± 0.5 mm
- Case height (top view): 18.1 ± 0.5 mm

Maximum Ratings, according to IEC publication No. 134

		①	FB1000	FB1001	FB1002	FB1004	FB1006	FB1008	FB1010
		②	FB1000L	FB1001L	FB1002L	FB1004L	FB1006L	FB1008L	FB1010L
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		10 A 7.5 A 5 A						
I_{FRM}	Recurrent peak forward current		50 A						
I_{FSM}	10 ms. peak forward current		200 A						
I^2t	I^2t value for fusing (t = 10 ms)		200 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 = 5 A	1.1 V
I _R	Max. reverse current per element at V _{RRM} d.c.	5 μA
R _{thj-c}	Typical thermal resistance junction to case	2 °C/W
	Isolation voltage from case to leads	2500 Vac

Characteristic Curves

