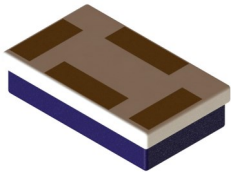
AEM Innovation to Power Your Vision

RoHS COMPLIANT HALOGEN FREE

AEM COMPONENTS

Controllable Fuse

ACFB Series (30A, B Size 5.4 mm * 3.2 mm)



Features:

- Fast response
- Multiple protection for overcharging and overcurrent
- Compact design and surface mountable
- Ideal for Li-ion battery (single & multi cell) application
- Three terminals

Applications:

- Vacuum cleaner
- Power tools
- E-scooter & E-bike
- UPS & BMS
- PC & NB
- Smartphone
- Tablet
- IT

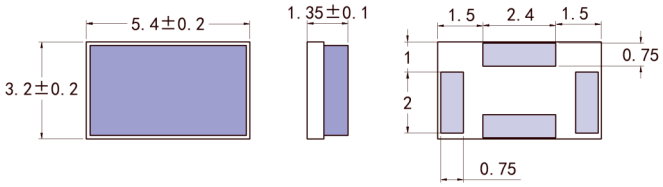
Packaging:

Chip Size	Parts on 13 inch (330 mm) Reel
5.4 mm * 3.2 mm	3,000

Shape and Dimensions:

Top View Side View Bottom View

(mm)



Product Identification:

ACF B 050 030 T

(1) (2) (3) (4) (5)

(1) Series Code: AEM Controllable Fuse

(2) Size Code: B Size 5.4 mm* 3.2 mm (length x width)

(3) Operation Voltage Code: 050 - 50V

(4) Current Rating Code: 30 - 30A

(5) Package Code: T - Tape & Reel, B - Bulk

Marking: **B5030;** AEM Logo;

B:Size Code ; **50**: Operation Voltage Code; **30:** Current Rating Code

Ordering Information:

Part Number	I_{rated} (A)[1]	Cells in Series[2]	V_{max} (V DC)[3]	I_{break} (A)[4]	V_{op} (V)[5]	R_{fuse} (mΩ)[6]
ACFB008030T	30	2	62	80	6.6~9.0	0.5~2.5
ACFB012030T	30	3	62	80	9.9~13.5	0.5~2.5
ACFB014030T	30	4	62	80	13.4~18.4	0.5~2.5
ACFB020030T	30	5	62	80	17.1~23.5	0.5~2.5
ACFB030030T	30	7	62	80	23.0~31.5	0.5~2.5
ACFB035030T	30	8	62	80	26.4~36.0	0.5~2.5
ACFB040030T	30	9~10	62	80	34.2~46. 9	0.5~2.5
ACFB050030T	30	12~14	62	80	45.2~62.0	0.5~2.5

1. I_{rated}: Current carrying capacity that is measured at 40°C thermal equilibrium condition
2. Cells in series： Number of battery cells connected in series in the circuit for the device to protect
3. V_{max}: The maximum Voltage that can be cut off by fuse
4. I_{brek}: The current that the fuse element able to interrupt
5. V_{op}: Range of operation voltage
6. R_{fuse}: The resistance of the fuse element

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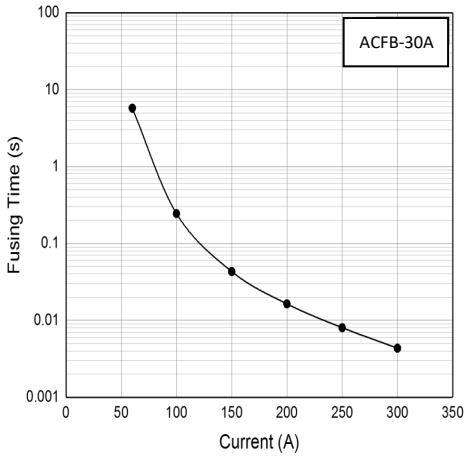
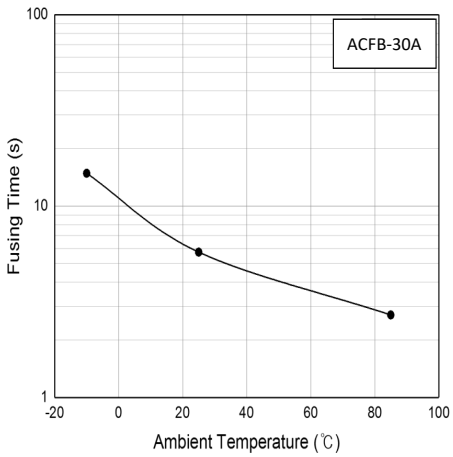
Product Performance Curve:

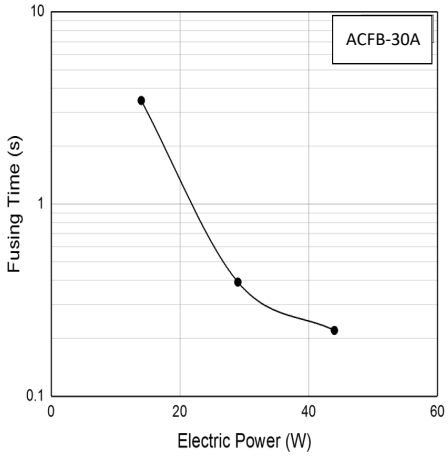
1 Characteristics Diagram (I-t)



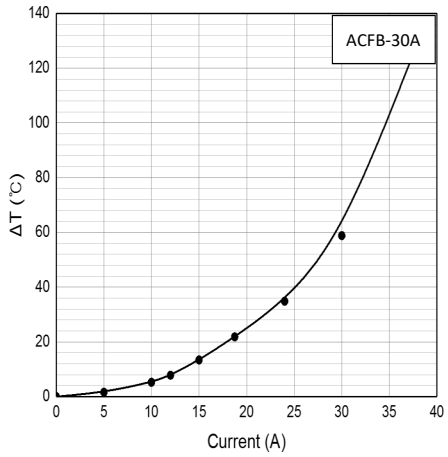
2 Characteristics Diagram (2*I-t)



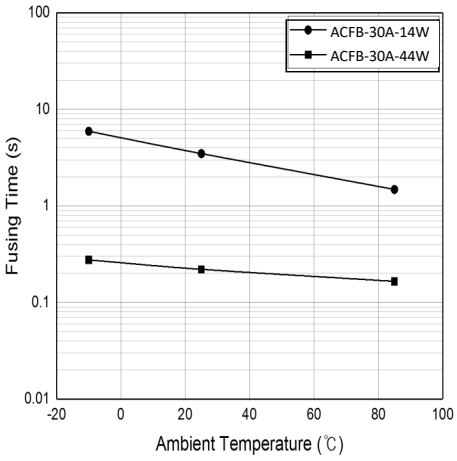
3 Curve Of Heating Element Power And Fusing Time



4 Current And Ambient Temperature



5 Fusing Time Curve Under Different Power / Ambient Temperature



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