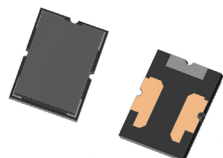


# SCF4030

## 4.0 mm x 3.0 mm Surface mount self-control fuse



### Product features

- Surface mount, 3 terminal fuse
- Provides overcurrent and overcharging protection
- Integrated thermal element provides triggerable operation
- Ideal for battery powered electronics
- A unique fusible device provides fast acting performance
- Moisture sensitivity level (MSL): 1

### Applications

- Notebook and laptop computing
- Handheld electric power tools
- Battery powered household appliances

### Agency information

cURus recognition file number:  
E19180, Guide JDYX2 and JDYX8



### Environmental compliance



### Ordering part number

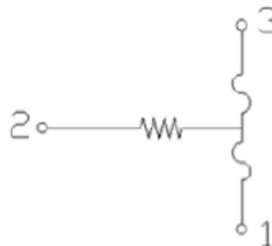
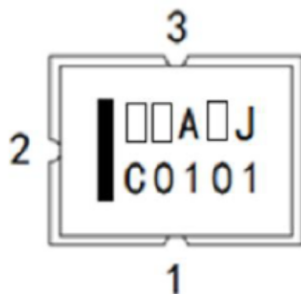
**SCF4030- 15 -01**

Family code

Ampere rating

Number of cells

### Equivalent circuit diagram

**EATON**

Powering Business Worldwide

### Electrical characteristics

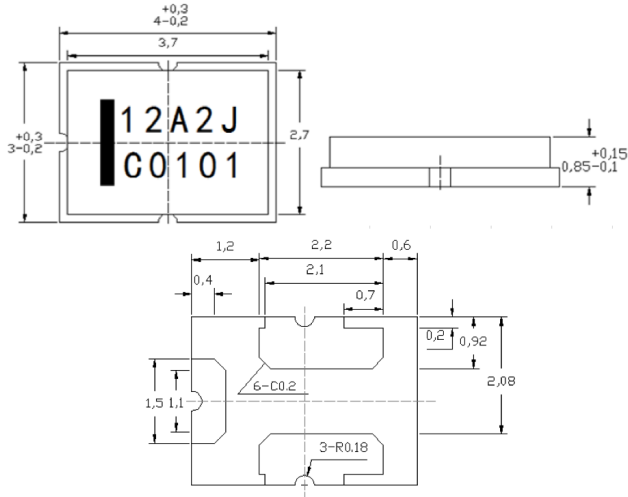
Condition of test	Opening time
100% of current rating	1 hour minimum
200% of current rating	60 seconds maximum
Operating voltage	60 seconds maximum

### Product specifications

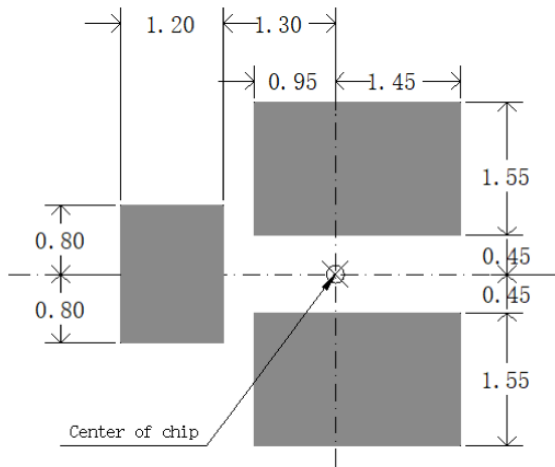
Part number	Current rating (A)	Voltage rating <sup>1</sup> (Vdc)	Heater DCR (Ω)	Operating voltage (V)	Breaking capacity (A)	Fuse DCR (mΩ)	Applicable cells in series	Part Marking	Agency approval cURus
SCF4030-12-01	12	36	0.6 - 1.5	3.0 – 4.5	50	1.0 – 3.5	1	12A1J	√
SCF4030-12-02	12	36	2.0 - 3.2	4.0 – 9.0	50	1.0 – 3.5	2	12A2J	√
SCF4030-12-03	12	36	5.7 - 9.9	7.4 – 13.8	50	1.0 – 3.5	3	12A3J	√
SCF4030-12-04	12	36	11.2 - 20.0	10.5 – 19.6	50	1.0 – 3.5	4	12A4J	√
SCF4030-12-05	12	36	17.0 - 34.0	14.4 – 23.5	50	1.0 – 3.5	5	12A5J	√
SCF4030-12-06	12	36	24.0 - 40.0	15.6 – 27.0	50	1.0 – 3.5	6	12A74	
SCF4030-12-67	12	36	30.0 - 50.0	17.4 – 32.9	50	1.5 - 3.5	6-7	12A7J	√
SCF4030-12-07	12	36	32.0 - 54.0	18.2 – 31.5	50	1.0 – 3.5	7	12A75	
SCF4030-12-08	12	36	39.0 - 65.0	20.3 – 36.0	50	1.5 – 3.5	8	12A72	
SCF4030-12-09	12	48	52.0 - 83.0	27.0 – 40.5	200	1.5 – 3.5	9	12A82	
SCF4030-12-10	12	48	65.0 - 100.0	30.0 – 45.0	200	1.5 – 3.5	10	12A83	
SCF4030-15-01	15	36	0.77 - 1.29	3.0 – 5.0	50	1.0– 3.0	1	15A1J	√
SCF4030-15-02	15	36	2.38 - 3.58	5.0 – 9.0	50	1.0 – 3.0	2	15A2J	√
SCF4030-15-03	15	36	5.44 - 8.16	7.4 – 13.8	50	1.0 – 3.0	3	15A3J	√
SCF4030-15-04	15	36	11.0 - 16.5	10.5 – 19.6	50	1.0 – 3.0	4	15A4J	√
SCF4030-15-05	15	36	15.0 - 20.2	12.0 – 21.5	50	1.0 – 3.0	5	15A5J	√
SCF4030-15-06	15	48	24.5 - 40.9	17.3 – 28.2	200	1.0 – 3.0	6	15A6J	√
SCF4030-15-07	15	48	36.0 - 56.0	20.2 – 32.9	200	1.0 – 3.0	7	15A7J	√
SCF4030-15-08	15	48	47.0 - 73.0	23.1 – 37.6	200	1.0 – 3.0	8	15A8J	√
SCF4030-15-10	15	48	74.0 - 105.0	25.0 – 47.0	200	1.0 – 3.0	10	15A82	
SCF4030-22-01	22	48	0.72 - 1.02	3.5 – 4.7	200	0.8 - 1.8	1	22A1J	√
SCF4030-22-02	22	48	2.29 - 3.30	6.0 – 9.2	200	0.8 - 1.8	2	22A2J	√
SCF4030-22-03	22	48	5.5 - 7.4	9.0 – 13.8	200	0.8 - 1.8	3	22A3J	√
SCF4030-22-04	22	48	9.75 - 13.25	12.0 – 18.5	200	0.8 - 1.8	4	22A4J	√
SCF4030-22-05	22	48	18.1 - 25.5	17.5 – 23.5	200	0.8 - 1.8	5	22A5J	√
SCF4030-22-06	22	48	22.0 - 30.0	18.0 – 27.0	200	0.8 - 1.8	6	22A52	
SCF4030-22-07	22	48	29.5 - 46.0	24.0 – 32.0	200	0.8 - 1.8	7	22A53	
SCF4030-22-10	22	48	62.0 - 92.0	32.0 – 45.0	200	0.8 - 1.8	10	22A83	

1. Rated voltage is the maximum voltage that the fuse can block, not the action voltage of the heater assembly

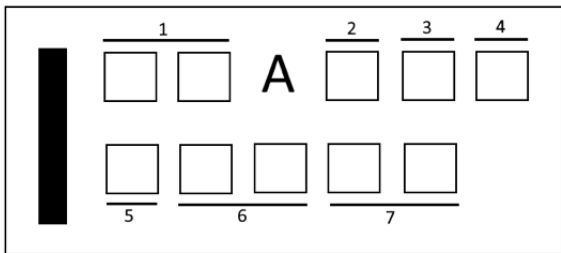
**Dimensions- mm**  
Drawing not to scale



**Recommended pad layout**



**Part marking**



1. Rated current: 12 A, 15 A, 22 A
2. Number related to series cells number
3. Length width size code: J:4.0 x 3.0 mm, for space limit may not shows on the body
4. Extension for (2)
5. Year: D: 2018; E: 2019.....
6. Week of year: 01, 02.....52
7. Running number: 01, 02.....

### General specifications

Operating temperature: -20 °C to +60 °C

Storage temperature: 10 °C to +40 °C < 90% RH

Storage duration: 1 year

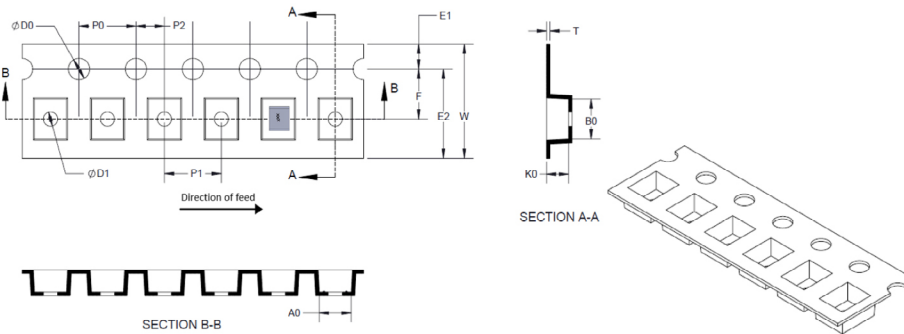
High temperature: +105 °C @ 1000 hours

Humidity: +85 °C @ 85% RH @ 500 hours

Low temperature: -40 °C @ 500 hours

### Packaging information- mm

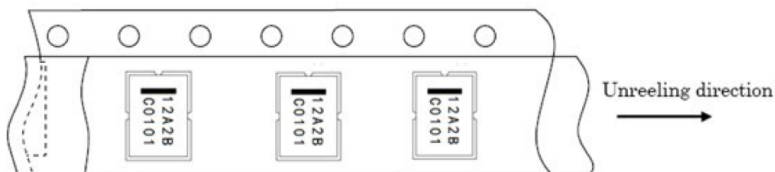
Supplied in tape and reel packaging, 5000 parts per 13" diameter reel. (EIA-481 compliant)



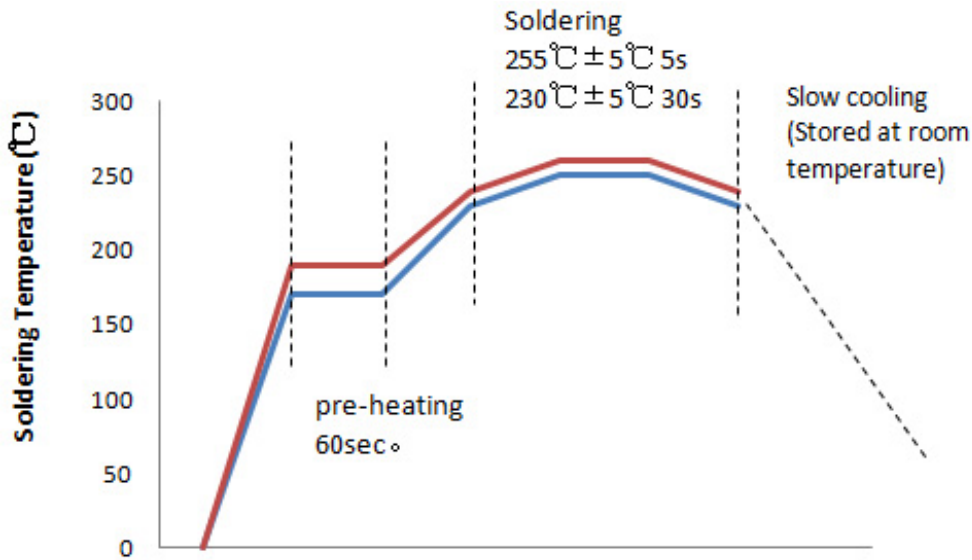
Code	(mm)
E1	1.75 ± 0.10
F	5.50 ± 0.10
P2	2.00 ± 0.05
D0	1.50 + 0.1/-0
D1	1.50 + 0.1/-0
P0	4.00 ± 0.10
10P0	40.0 ± 0.20
W	12.00 ± 0.30
P	8.00 ± 0.10
A0	3.30 ± 0.10
B0	4.30 ± 0.10
K0	1.15 ± 0.10
T	0.30 ± 0.05

### Direction of taping

The direction shall be seen from the top cover tape side



Solder reflow profile



Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

**Eaton**  
**Electronics Division**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com/electronics

© 2022 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. ELX1133 BU-ELX21141  
January 2022

Eaton is a registered trademark.  
All other trademarks are property  
of their respective owners.

Follow us on social media to get the  
latest product and support information.



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33 | info@alcom.be | www.alcom.be

Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands | Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl