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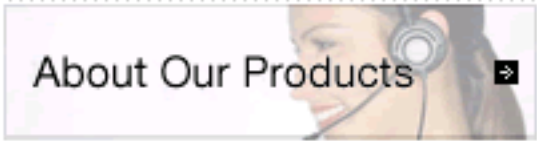
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Self Control Protector (SCP)  
10A rated, 12A rated series

Surface mounted type fuse that immediately interrupts overcharge or overcurrent in Li-ion rechargeable battery.

Please select the product name :

SFH-0412B / SFH-0810C / SFH-1212B / SFH-1412B / SFH-2012B



- Product name

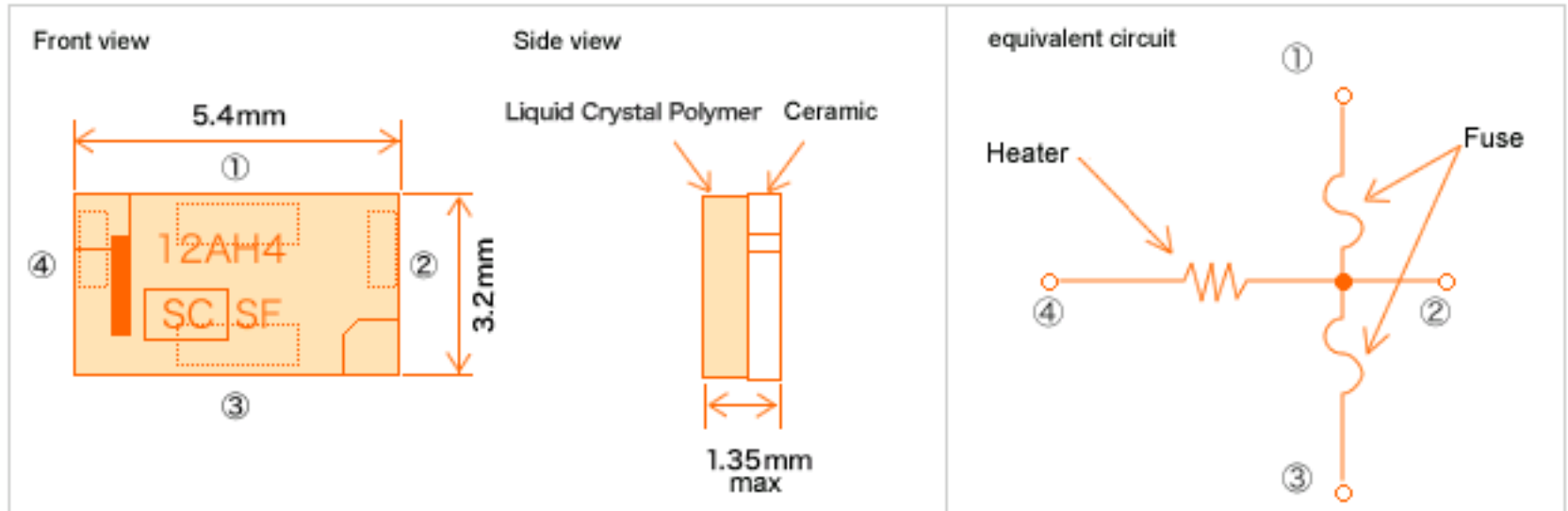
SFH-0412B / SFH-0810C / SFH-1212B / SFH-1412B / SFH-2012B
- Suitable use

For Li-ion rechargeable battery
- Application

Computers/ AV/ Cellular phones/ Automobiles
- Features

- Environmentally conscious: halogen-free.
  - It protects Li-ion battery from the overcharge and the overcurrent.
  - No overheating of self control protector: For protection of overcharging, Cut off the charging circuit when the fuse element melts, and at the same time, the flow of electric current through a heater is stopped automatically.
  - Automatically mountable by general-purpose chip mounter as well as reflow solderable using an alloy with a high melting point as a fusible alloy in the device.

Structure



Specifications

Product Name	SFH-0412B	SFH-0810C	SFH-1212B	SFH-1412B	SFH-2012B
Applicable cells in series	1 cell	2 cells	3 cells	4 cells	5 cells
Rated current	12A	10A	12A		
Rated voltage(*)	36VDC				
Rated breaking capacity	50A				
Operating voltage	4.0 - 7.0V	4.0 - 9.0V	7.4 - 13.8V	10.5 - 19.6V	14.4 - 23.5V
Heater resistance	1.4 - 2.4Ω	1.7 - 2.6Ω	5.5 - 9.1Ω	11.0 - 18.4Ω	17.3 - 25.9Ω
Fuse resistance	1.5 - 3.5mΩ	2.0 - 4.0mΩ	1.5 - 3.5mΩ		
Size	5.4 x 3.2 x 1.35mm	5.4 x 3.2 x 1.25mm	5.4 x 3.2 x 1.35mm		
Electrode	Ag-Pt				
Marking	<div><div>12AH1</div><div>SCSF</div></div>	<div><div>10AH2</div><div>SCSF</div></div>	<div><div>12AH3</div><div>SCSF</div></div>	<div><div>12AH4</div><div>SCSF</div></div>	<div><div>12AH5</div><div>SCSF</div></div>

- (\*) Maximum voltage at which cutoff of the fuse is possible. It is not the operating voltage for the heater.
- UL certificated: UL file No. E167588
  - TUV certification: Certificate No. J9650637
  - ROHS directive: Conforming
  - Management regulations for environment-related substances to be controlled which are included in Sony's parts and materials: Conforming to SS-00259