



Features

- Formerly a **KOMATSULITE™** product
- Miniature Thermal Cutoff (TCO) device
- Surface mount
- Overtemperature and overcurrent protection for lithium polymer and prismatic cells
- Controls abnormal, excessive current virtually instantaneously, up to rated limits
- Wide range of temperature options

Applications

Battery cell protection for:

- Notebook PCs
- Tablet PCs
- Smart phones
- USB cable protection for smart phones

SA Series Breaker (Surface Mount Thermal Cutoff Device)

Ratings

Specification	S-TYPE			
	SA72SB0	SA77SB0	SA82SB0	SA85SB0
Trip Temperature	72 °C ± 5 °C	77 °C ± 5 °C	82 °C ± 5 °C	85 °C ± 5 °C
Reset Temperature	40 °C min.			
Contact Rating	DC9 V / 25 A, 6000 cycles			
Maximum Breaking Current	DC5 V / 60 A, 100 cycles			
Maximum Voltage	DC28 V / 25 A, 100 cycles			
Maximum Leakage Current	200 mA max. @ 25 °C			
Resistance	7 milliohms max.			

How to Order

Series Designator _____

Trip Temperature (±5 °C) _____

- 72
- 77
- 82
- 85

Arm Material _____

S = Cu Alloy High Current Type

Resin Type _____

Terminal Type _____

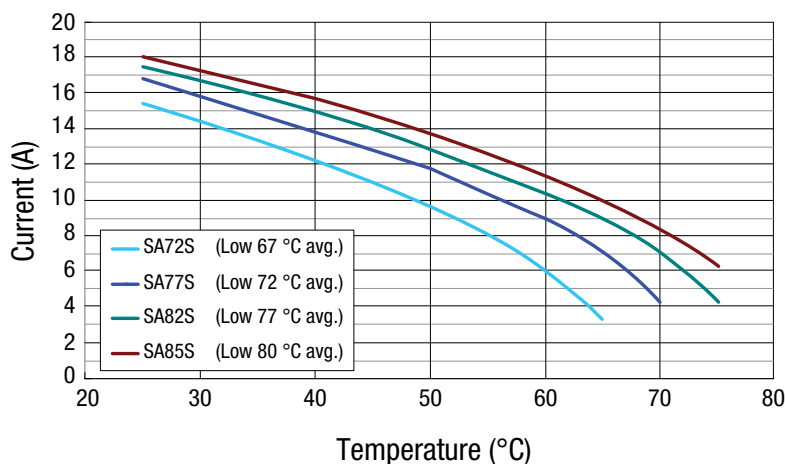
0 = 4 Terminals
(Terminal Length 1.3 mm)

SA 77 S B 0

Agency Recognition

Description	
UL, cUL	File Number: E215638 (UL 60730)
TUV	File Number: TBD 3/15/17

Typical Performance



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The above curves were derived from placing test samples in an oven at 25 °C, 40 °C, 60 °C and 70 °C, increasing current flow through the sample at a rate of 0.1 A/minute and recording the current value when the sample trips.

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

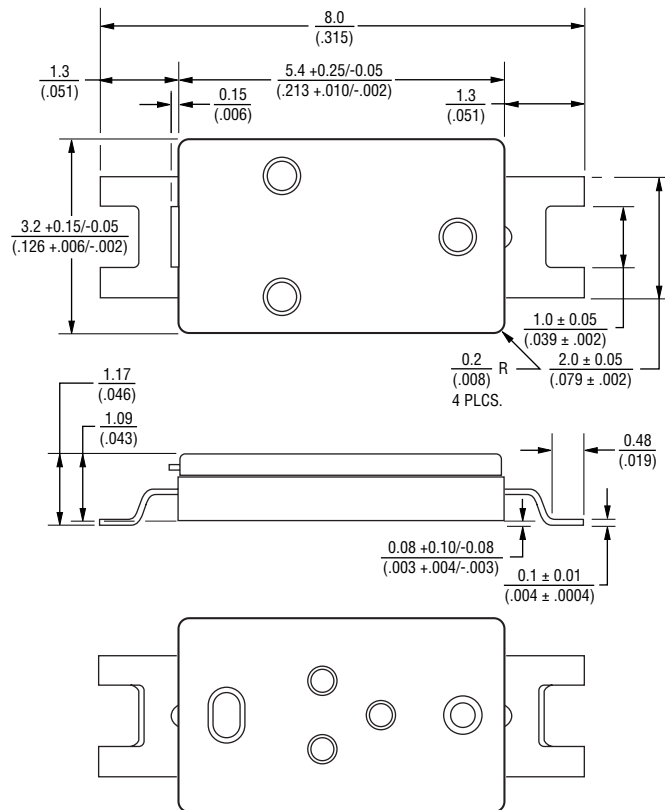
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

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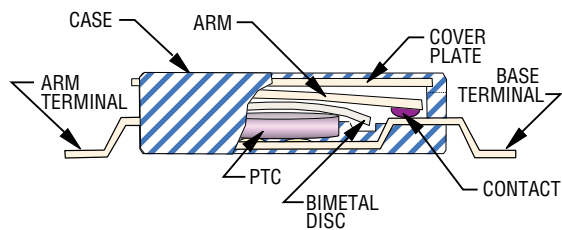
BOURNS®

Product Dimensions

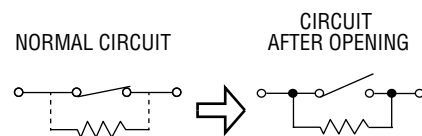


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Product Structure



Circuit Diagram



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