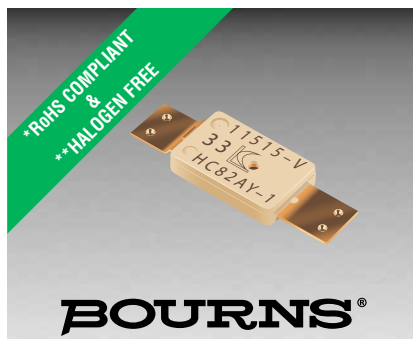




Features

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

Applications

Battery cell protection for:

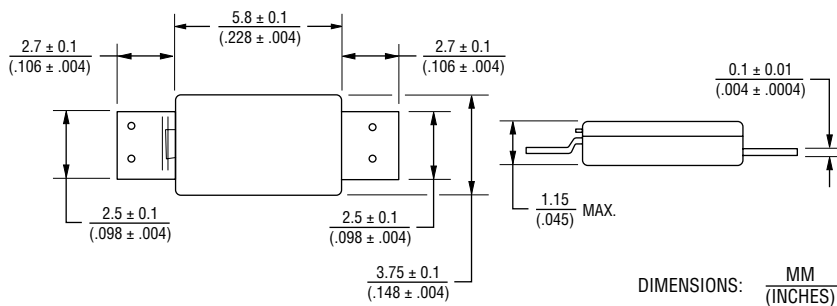
- Notebook PCs
- Tablet PCs
- Smart phones
- Mobile phones

HC Series Breaker (Thermal Cutoff Device)

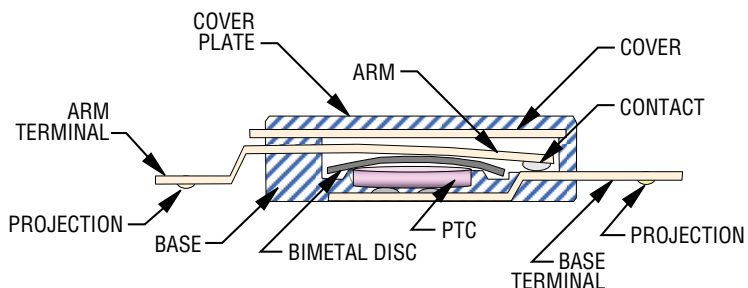
Ratings

Specification	Model				
	HC72AY-1	HC77AY-1	HC82AY-1	HC85AY-1	HC90AY-1
Trip Temperature	72 °C ± 5 °C	77 °C ± 5 °C	82 °C ± 5 °C	85 °C ± 5 °C	90 °C ± 5 °C
Reset Temperature	40 °C min.				
Contact Rating	DC9V / 25 A, 6000 cycles				
Maximum Breaking Current	DC5V / 80 A, 100 cycles				
Maximum Voltage	DC28V / 25 A, 100 cycles				
Minimum Holding Voltage	3 V @ 25 °C for 1 minute				
Maximum Leakage Current	200 mA max. @ 25 °C				
Resistance	5 milliohms max.				

Product Dimensions



Product Structure



AVAILABLE WITH AND WITHOUT PROJECTIONS.

Agency Recognition

Description	
UL, cUL	File Number: E215638
TUV	File Number: R50203147

How to Order

Series Designator	HC 72 A Y - 1
Trip Temperature (±5 °C)	• 72 • 85 • 77 • 90 • 82
Arm Material	A = Cu Alloy
Manufacturer's Internal Code	
Terminal Type	(with/without Projection & Terminal Length)

* 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.

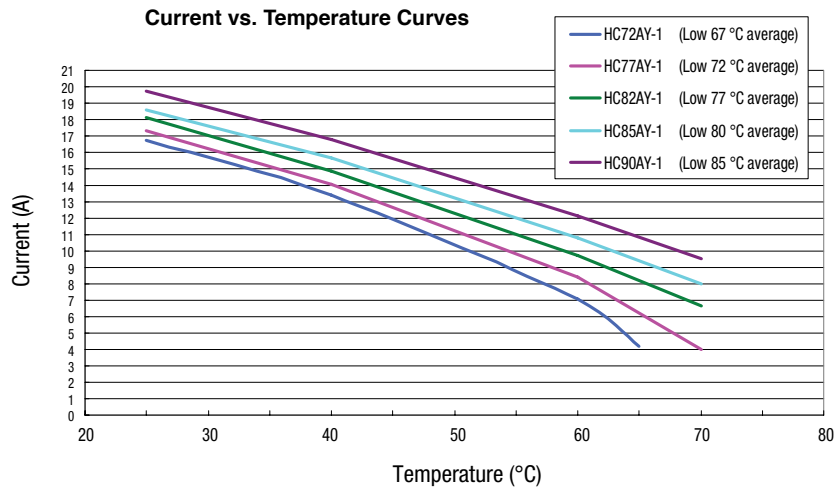
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

HC Series Breaker (Thermal Cutoff Device)

BOURNS®

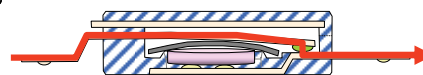
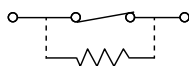
Typical Performance



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.

Operation

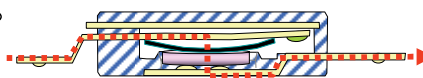
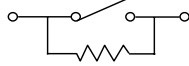
NORMAL CIRCUIT



CURRENT

EXCESSIVE
CURRENT
AND/OR
HEAT

CIRCUIT AFTER OPENING



VERY LOW CURRENT

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.