

# ST Series (Mini Protector)

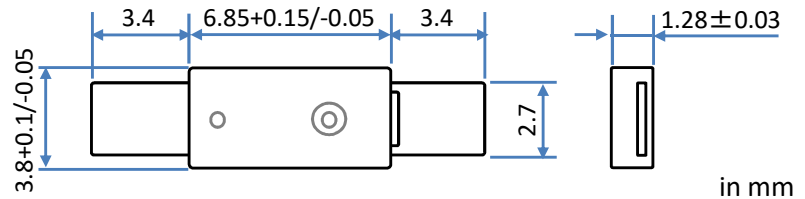
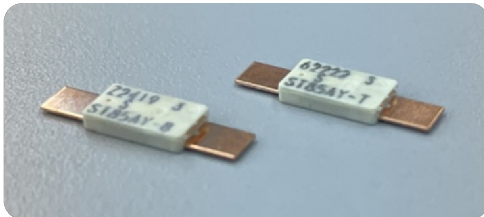
## Features

- High current capacity with small size
- **New** series: large conduct type ST-T (High U/T)
- Available to conduct 18A at 60°C

## Applications

- Heat protection, over current protection for batteries
- Laptop PCs, Gaming PCs
- Tablet PCs, Buck-up batteries

## Dimensions



## Specifications

add New series : ST-T (High U/T current type)

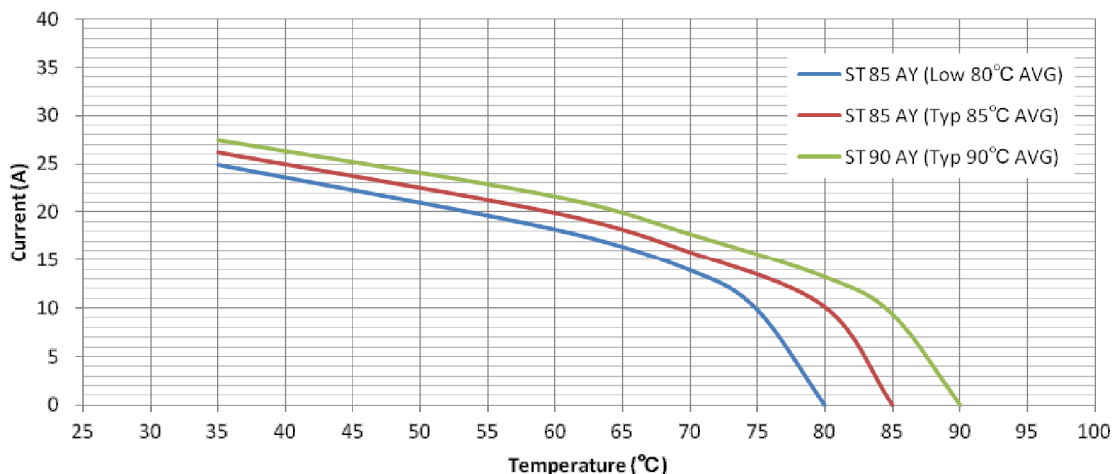
Specification item	ST□□AY シリーズ			
	ST85AY-8	ST90AY-8	ST85AY-T <b>New</b>	ST90AY-T <b>New</b>
Trip temperature(※)	85±5°C	90±5°C	85±5°C	90±5°C
Reset temperature	40°C min.		40°C min.	
Difference between trip and reset temp	7°C min.		7°C min.	
Resistance	5 mΩ max.		2.5 mΩ max.	
Non trip current (U/T current)	12A min.	14A min.	15A min.	16A min.
Current sensitivity	40A within 60sec			
Contact rating	DC9V / 35A or DC20V / 8A			
Maximum breaking current	70A (DC5V)			
Maximum voltage	DC28V			
Minimum holding voltage	DC3.5V @25°C for 48h			
Maximum leakage current	200mA max.			

(※) Other trip temperature products are available from 77°C to 90°C.

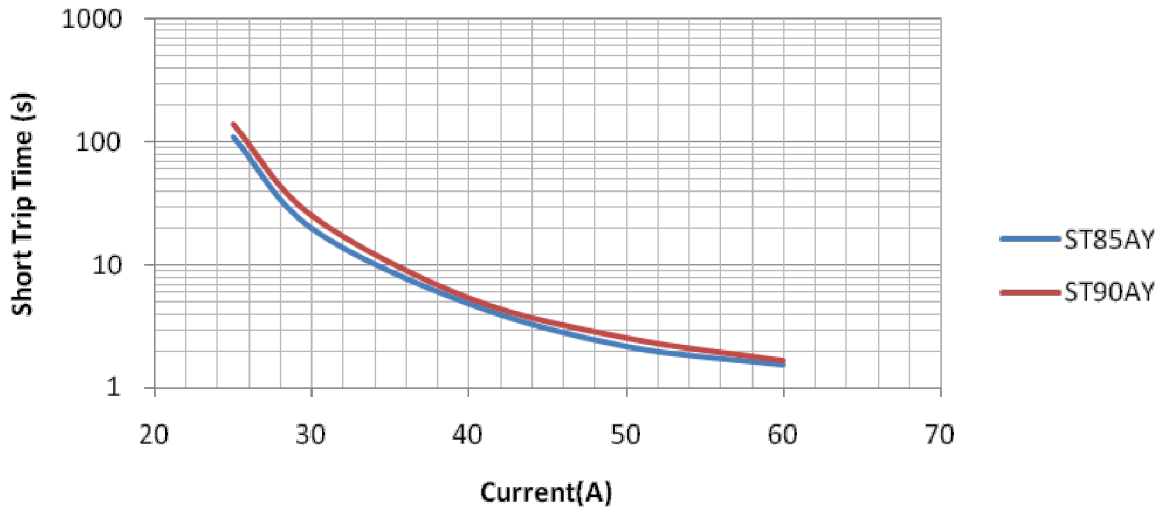
## Typical performance

## Current vs Temperature curves (U/T curves) ST-AY type

Current vs Temperature Curve - ST85/90AY



Short Trip Time ST-AY type



Part numbering

ST 85 A Y - 8  
 I II III IV V

- I . Model name: ST
- II . Trip temperature (Celsius)
- III . Current sensitivity type number  
 \*Current sensitivity performance depends on part number, please contact us for detail.
- IV . Reset method : Y – Self holding type (built-in PTC)
- V . Custom option: Serial number  
 \* 8 – standard, T – High U/T current type(High non-trip current type)

Certification, Conformity

Agency / Standard / File No.		Hazardous substance regulation	
UL, cUL	TUV	RoHS 2.0	Halogen Free
UL 60730 CAN/CSA-E60730	EN 60730-2-9 IEC 60730-2-9	○※1	○
File No: E 194576	File No: R 5043683		

Halogen Free : Br is 900ppm or less, Cl is 900ppm or less, total Br+Cl is 1,500ppm or less.

※1: Although ceramic of PTC contains Lead, it is exemption in RoHS directive.

Others

■ In ST series, there is no Ni plate terminal welded option, however, it is possible to be considered depending on your necessary quantity and plate shape/size requirement, whether it can be assembled by automatic machine or not. Please contact us if you need.