



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD thermal fuse for high currents



60VDC · up to 100A · 210 °C · PCB, SMT

See below:

[Approvals and Compliances](#)

**Description**

- Patented surface mount thermal fuse to protect against thermal runaway of power semiconductors such as: MOSFET's, IC's, IGBT's, Triac's, SCR's, etc.
- Provides physical protection in cases where all software-based security measures have failed

**Unique Selling Proposition**

- Separates rated voltages up to 60VDC
- Reflow compatible through mechanical activation procedure
- Galvanic separation happens inside the RTS housing
- Smallest footprint with just two contacts

**Applications**

- Wherever power transistors are used
- Automotive: Cooling fan applications, ABS power steering, PTC heaters, HVAC, Glow plugs, Diesel fuel heaters
- Industrial: Battery Protection, Power supplies, Lighting ballasts, H-Bridge circuits, Motor drivers

**Other versions on request**

- Thermal fuse with integrated shunt
- Thermal fuse with integrated fuse

**Weblinks**

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Landing Page](#), [Video](#)

**Technical Data**

Rated Voltage	60VDC
Breaking Capacity	400A
Operating current	up to 100A
Mounting	PCB, SMT
Allowable Operation Temperature	-40 °C to +150 °C
Tripping temperature	210 °C
Material: Housing	Plastics
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.75 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	Variant Code, Lot no.

Maximum reflow temperature	260 °C (peak)
Soldering Methods	Reflow <a href="#">Soldering Profile</a>
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58
Resistance to Soldering Heat	260 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Activation force	Fa = max. 50 N
Activation distance	Sa = 1.1 ± 0.1 mm

**Approvals and Compliances**

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 134485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.




**Application standards**

Application standards where the product can be used

Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

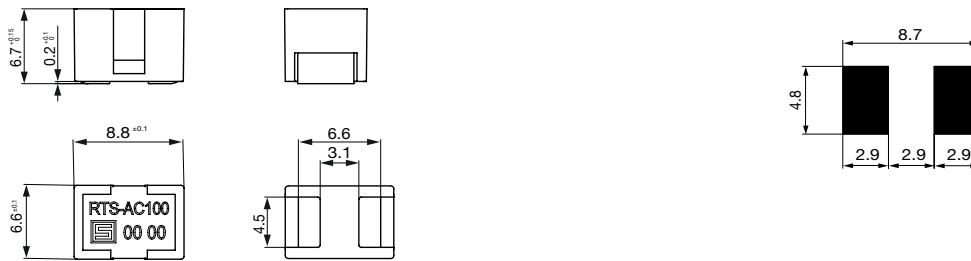
**Compliances**

The product complies with following Guide Lines

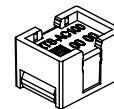
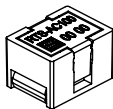
Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
	Automotive	SCHURTER AG	AEC-Q200 is a test standard for passive components used in automotive applications. SCHURTER tests components according to the customer's agreement and is certified according to IATF 16949.

**Dimension [mm]**

Reflow soldering pads



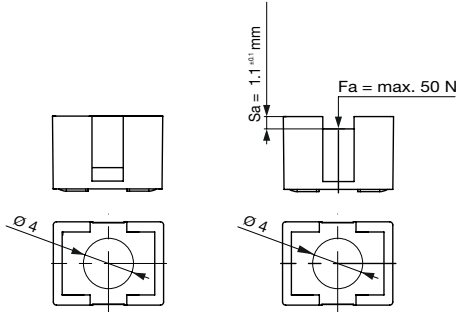
Activation status



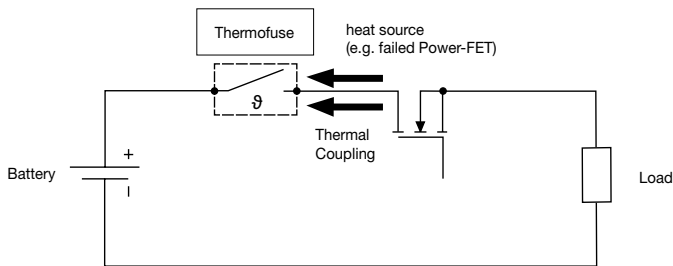
Deactivated

Activated: must be mechanically activated after reflow

Activation specification



Diagrams



All Variants

Cold Resistance typ. (max.)	Packaging unit [PCS]	Order Number
95 $\mu\Omega$ (120 $\mu\Omega$ )	100	3-104-513
95 $\mu\Omega$ (120 $\mu\Omega$ )	750	3-104-514

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Nominal Current: < 100 A

Nominal Current depends on the implementation on the board (Cu area/ thickness)

Breaking Capacity: 400 A @ 24 VDC (> 18  $\mu\text{H}$ ) / 200 A @ 50 VDC (> 27  $\mu\text{H}$ ) / 170 A @ 60 VDC (> 32  $\mu\text{H}$ )

All measurements carried out on a board based on IEC 60127-4 with 20 mm track width and 70  $\mu\text{m}$  copper layer thickness

**Packaging Unit** Blister Tape 33 cm Reel in ESD Plastic Bag