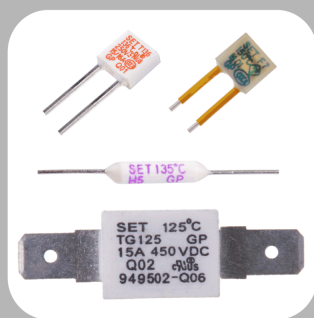


SETfuse

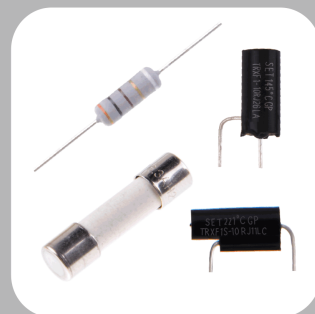
Design, Manufacture, Market Circuit Protection Components



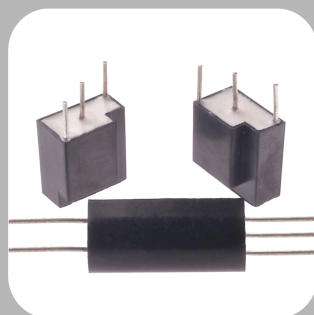
Over Temperature



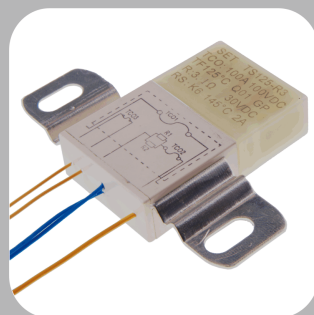
Over Voltage



Over Current



Multiple



Active

5

Company Profile

SETfuse is a company which is engaged in Designing and Manufacturing Circuit Protection Components and Providing Integrated Circuit Protection Solutions. SETfuse is specialized in the innovative protection fields of Over Temperature Protection, Over Current Protection, Over Voltage Protection, Active Protection and Multiple Protection, helping customers to improve the safety index of their products.

SETfuse Develops, Manufactures and Sells the products to the High Reliability markets of Industry, Electronic, New Energy and so on. It offers industry-leading Thermal-link (TCO), Metal Oxide Varistor (MOV), Thermal Fuse & MOV(TFMOV), Surge Protection Device (SPD), Wirewound Fusing Resistor (RXF), Thermal-link & Fusing Resistor (TRXF), Current Fuse (Fuse), Ideal Thermal Fuse (iTCO) and Protective Unit for Adaptor (PUA).

Product and Quality

SETfuse has 17 years innovative history and obtains a lot of patents. Breakthrough Innovation Design, Manufacturing Process and Automatic production put our products in a leading position in the industry. SETfuse has set up the UL authorized Lab under UL 1449 Standard and the Witness Test Data Program (WTDP) Lab under UL 60691 Standard. Professional Testing Equipment and perfect Quality (ISO9001), Environment (ISO14001), Occupational Health and Safety (OHSAS18000) management system make the products comply with RoHS and REACH. SETfuse's products are component-recognized in China as well as internationally by organizations such as CCC, UL, CUL, VDE, TUV, PSE and KTL. The stringent quality control method ensures the products with High Quality and Reliability.

Corporate Responsibility

SETfuse sells products all over the world. This means that we have more social responsibility. We offer and guarantee safe workplace and environment, to comply with laws and regulations.

Customer Relations

SETfuse's products are very important in the circuit protection field, we are committed to set up and maintain the excellent customer relations.

For more information about SETfuse, Welcome to our website: www.SETfuse.com

Registered Trademarks



Xiamen SET Electronics Co., Ltd.



Xiamen SET Electronics Co., Ltd.

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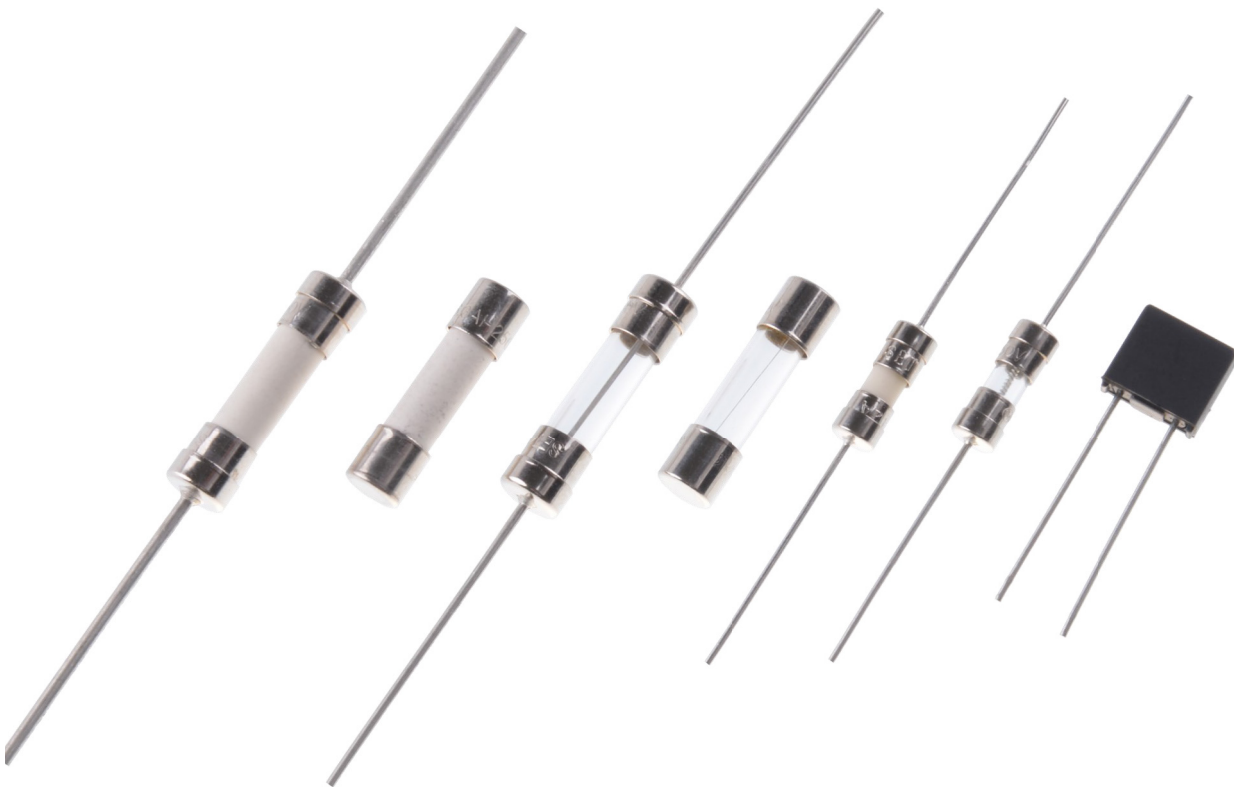
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Automatic Production Line

FOCUS

PROFESSIONAL



FEATURES AND BENEFITS

- CERAMIC AND GLASS TUBE
- FAST ACTING AND TIME LAG
- RATED CURRENT: (0.2 - 20) A
- RATED VOLTAGE: 125 Vac, 250 Vac
- LOW AND HIGH BREAKING CAPACITY
- PHYSICAL DIMENSIONS: $\Phi 5 \times 20$ mm, $\Phi 3.6 \times 10$ mm, $4 \times 7 \times 8$ mm
- RoHS & REACH COMPLIANT

Fuse Feature & Model List Overview

		P338	P340	P342	P344	P346	P348	P350	P352	P354	Page
Rated Current	20A	SGF520-20A	SGT520-20A	SCF520-20A	SCT520-20A						Model NO.
	16A	SGF520-16A	SGT520-16A	SCF520-16A	SCT520-16A						
	15A	SGF520-15A	SGT520-15A	SCF520-15A	SCT520-15A						
	12.5A	SGF520-12.5A	SGT520-12.5A	SCF520-12.5A	SCT520-12.5A						
	12A	SGF520-12A	SGT520-12A	SCF520-12A	SCT520-12A						
	10A	SGF520-10A	SGT520-10A	SCF520-10A	SCT520-10A		SGTU3610-10A		SCTU3610-10A	SPT478-10A	
	8A	SGF520-8A	SGT520-8A	SCF520-8A	SCT520-8A		SGTU3610-8A		SCTU3610-8A	SPT478-8A	
	6.3A	SGF520-6.3A	SGT520-6.3A	SCF520-6.3A	SCT520-6.3A	SGFU3610-6.3A	SGTU3610-6.3A	SCFU3610-6.3A	SCTU3610-6.3A	SPT478-6.3A	
	5A	SGF520-5A	SGT520-5A	SCF520-5A	SCT520-5A	SGFU3610-5A	SGTU3610-5A	SCFU3610-5A	SCTU3610-5A	SPT478-5A	
	4A	SGF520-4A	SGT520-4A	SCF520-4A	SCT520-4A	SGFU3610-4A	SGTU3610-4A	SCFU3610-4A	SCTU3610-4A	SPT478-4A	
	3.15A	SGF520-3.15A	SGT520-3.15A	SCF520-3.15A	SCT520-3.15A	SGFU3610-3.15A	SGTU3610-3.15A	SCFU3610-3.15A	SCTU3610-3.15A	SPT478-3.15A	
	2.5A	SGF520-2.5A	SGT520-2.5A	SCF520-2.5A	SCT520-2.5A	SGFU3610-2.5A	SGTU3610-2.5A	SCFU3610-2.5A	SCTU3610-2.5A	SPT478-2.5A	
	2A	SGF520-2A	SGT520-2A	SCF520-2A	SCT520-2A	SGFU3610-2A	SGTU3610-2A	SCFU3610-2A	SCTU3610-2A	SPT478-2A	
	1.6A	SGF520-1.6A	SGT520-1.6A	SCF520-1.6A	SCT520-1.6A	SGFU3610-1.6A	SGTU3610-1.6A	SCFU3610-1.6A	SCTU3610-1.6A	SPT478-1.6A	
	1.25A	SGF5201.25A	SGT520-1.25A	SCF5201.25A	SCT520-1.25A	SGFU3610-1.25A	SGTU3610-1.25A	SCFU3610-1.25A	SCTU3610-1.25A	SPT478-1.25A	
	1A	SGF520-1A	SGT520-1A	SCF520-1A	SCT520-1A	SGFU3610-1A	SGTU3610-1A	SCFU3610-1A	SCTU3610-1A	SPT478-1A	
	800mA	SGF520-800mA	SGT520-800mA	SCF520-800mA	SCT520-800mA	SGFU3610-800mA	SGTU3610-800mA	SCFU3610-800mA	SCTU3610-800mA	SPT478-800mA	
	630mA	SGF520-630mA	SGT520-630mA	SCF520-630mA	SCT520-630mA	SGFU3610-630mA	SGTU3610-630mA	SCFU3610-630mA	SCTU3610-630mA	SPT478-630mA	
	500mA	SGF520-500mA	SGT520-500mA	SCF520-500mA	SCT520-500mA	SGFU3610-500mA	SGTU3610-500mA	SCFU3610-500mA	SCTU3610-500mA	SPT478-500mA	
	400mA	SGF520-400mA	SGT520-400mA	SCF520-400mA	SCT520-400mA	SGFU3610-400mA	SGTU3610-400mA	SCFU3610-400mA	SCTU3610-400mA	SPT478-400mA	
	315mA	SGF520-315mA	SGT520-315mA	SCF520-315mA	SCT520-315mA	SGFU3610-315mA	SGTU3610-315mA	SCFU3610-315mA	SCTU3610-315mA	SPT478-315mA	
	250mA	SGF520-250mA	SGT520-250mA	SCF520-250mA	SCT520-250mA	SGFU3610-250mA	SGTU3610-250mA	SCFU3610-250mA	SCTU3610-250mA	SPT478-250mA	
	200mA	SGF520-200mA	SGT520-200mA	SCF520-200mA	SCT520-200mA	SGFU3610-200mA	SGTU3610-200mA	SCFU3610-200mA	SCTU3610-200mA	SPT478-200mA	
Time Feature		Fast Acting	Time Lag	Fast Acting	Time Lag	Fast Acting	Time Lag	Fast Acting	Time Lag	Time Lag	
Tube Material		Glass		Ceramic		Glass		Ceramic		Plastic Case	
Standards		IEC				UL				IEC	
Breaking Capacity		35A~200A Low		500A~1500A High		35A~100A Low					
Physical Size (mm)		Φ5 X 20				Φ3.6 X 10				4 X 7 X 8	
Feature											

Product Description

Fuse is a Over Current Protection device, which is designed in series with the protected device in the circuit. Its resistance is very low, when in normal circuit, it acts as a conductor that can be conducting longly and steady. When current fluctuation happens because of power system or other interference, it can withstand kind of overload. Only when fault current happens, fuse can blow fast to protect the circuit.

SET company's fuse is widely used in all kinds of electrical equipment. It responses Fast and the Size is Compact. Its rated current ranges from 200mA to 20A. It complies with RoHS and REACH and is approved by UL, CUL, VDE, PSE, CCC, CQC, KC.

Glossary

Fuse

An overcurrent protective device with a fusible link that operates and permanently opens the circuit on an overcurrent condition.

—(IEC 60127)

Fast Acting Fuse

A fuse which opens on overload and short circuits very quickly. This type of fuse is not designed to withstand temporary overload currents associated with some electrical load. UL listed or recognized fast acting fuses would typically open within 5 s when subjected to 200% to 250% of its rated current. IEC has two categories of fast acting fuses:

- F=Fast acting, opens on 10X rated current within 0.001 s to 0.01 s.
- FF=Very fast acting, opens on 10X rated current within less than 0.001 s.

—(UL 248)

Time Lag Fuse

A fuse with a built-in delay that allows temporary and harmless inrush currents to pass without operating, but is so designed to open on sustained overloads and short circuits. UL listed or recognized time delay fuses typically open in 2 minutes Max. when subjected to 200% to 250% of rated current. IEC has two categories of time delay fuses:

- T=Time Lag, opens on 10X rated current within 0.01 s to 0.3 s.
- TT=Long time Lag, opens on 10X rated current within 0.1 s to 1 s.

—(UL 248)

Rated Current

The rated current of a fuse identifies its current-carrying capacity based on a controllable set of test conditions. Each fuse is marked with its rated current. This rating can be identified with a numeric, alpha, or color code mark.

—(IEC 60127)

Rated Voltage

A Max. open circuit voltage in which a fuse can be used, yet safely interrupt an overcurrent. Exceeding the voltage rating of a fuse impairs its ability to clear an overload or short circuit safely.

—(IEC 60127)

RMS Current

The R.M.S. (root mean square) value of any periodic current is equal to the value of the direct current, which flowing through a resistance, produces the same heating effect in the resistance as the periodic current does.

—(IEC 60127)

Normal Operating Current

The normal operating current of a circuit is the level of current drawn (in RMS or dc amperes) after it has been energized and is operating under normal conditions. An operating current of 80% or less of rated current is recommended for operation at 25 °C to avoid nuisance openings. For example, a fuse with a Rated Current of 1 A is usually not recommended in circuits with normal operating currents of more than 800 mA. Further derating is required at elevated ambient Temp..

—(UL 248)

Ampere Squared Seconds I^2t

The melting, arcing, or clearing integral of a fuse, termed I^2t , is the thermal energy required to melt, arc, or clear a specific current. It can be expressed as melting I^2t , arcing I^2t or the sum of them, clearing I^2t .

—(IEC 60127)

Overcurrent

A condition which exists in an electrical circuit when the normal load current is exceeded. Overcurrents take on two separate characteristics-overloads and short circuits.

—(UL 248)

Short Circuit

An overcurrent that leaves the normal current path and greatly exceeds the normal full load current of the circuit by a factor of tens, hundreds, or thousands times.

—(UL 248)

Arcing Time

The amount of time from the instant the fuse link has melted until the overcurrent is interrupted, or cleared.

—(IEC 60127)

Clearing Time

The total time between the beginning of the overcurrent and the final opening of the circuit at rated voltage by an overcurrent protective device. Clearing time is the total of the melting time and the arcing time.

—(IEC 60127)

Breaking Capacity of a Fuse-link

Value (r. m. s. for ac) of prospective current that a fuse-link is capable of breaking at a stated voltage under prescribed conditions of use and behaviour.

—(IEC 60127)

Selecting Overcurrent Protection

During normal load conditions, the fuse must carry the normal operating current of the circuit without nuisance openings. However, when an overcurrent occurs the fuse must interrupt the overcurrent and withstand the voltage across the fuse after internal arcing.

To properly select a fuse the following items must be considered:

- Rated Voltage (AC or DC Voltage)
- Rated Current
- Normal Operating Current
- Ambient Temp.
- Overload conditions and Opening Time
- Available Short Circuit Current
- Ampere squared seconds(I^2t)
- Pulse and In-rush Characteristics
- Characteristics of equipment or components to be protected
- Physical Size and Available Board Space
- Standards Requirements

Selection Process

Procedure	Expound
Start	Prepare related design information.
Safety Approval	The safety approvals required for fuse shall be upon to the end product. It is determined initially IEC standard or UL standard.
Dimensions	<ul style="list-style-type: none"> ● The space limit of circuit in design. ● Mounting mode.
Rated Voltage	The Rated Voltage of the fuse shall be greater than, or equal to the available circuit voltage.
Interrupting Rating AC	The interrupting rating of the fuse should exceed the Max. Fault Current of the circuit.
Initial Selection For Fuse Type	Does there exist “starting current” in a circuit when the end product turns on or off? The “starting current” is normal for some circuit and requires the time-lag fuse or medium time-lag fuse.
Upper Limit For Rated Current I_U	The overload current and lasting time in which a fuse must function (It may be specified on the specific protection needs of circuit by a design engineer.). Referring to the Time-Current curve, the Max. Rated Current which meet the requirement would be taken as the upper limit for Rated Current I_U .
Lower Limit For Rated Current I_L	<ul style="list-style-type: none"> ● Steady state current through a fuse (based on the specific circuit). ● The difference of Rated Current for fuse designed to IEC standard and UL standard, refer to STEADY STATE CURRENT. ● Effect of ambient Temp. on current-carrying capacity of fuse, refer to AMBIENT TEMP.. ● Effect of pulse (including surge currents, starting current, in-rush currents and transients) on life time of fuse, refer to PULSE. ● “Starting current” and duration should be compared to Time-Current curve of relevant fuse. <p>According to the above 5 factors, the Min. Rated Current which meets the requirement will be as the lower limit of I_L.</p>
SET Fuse Model & Rated Current	<p>According to the above factors, choose the most appropriate model and rated current.</p> <ul style="list-style-type: none"> ● When $I_U \geq I_L$, any rating is available from the range of I_L to I_U. ● When $I_U < I_L$, recommend to select another type fuse.
Proving	The sample shall be trial-operation in the actual circuit.
End	

Steady State Current

There exist the different conditions between the actual appli-
ance and test conditions, such as:

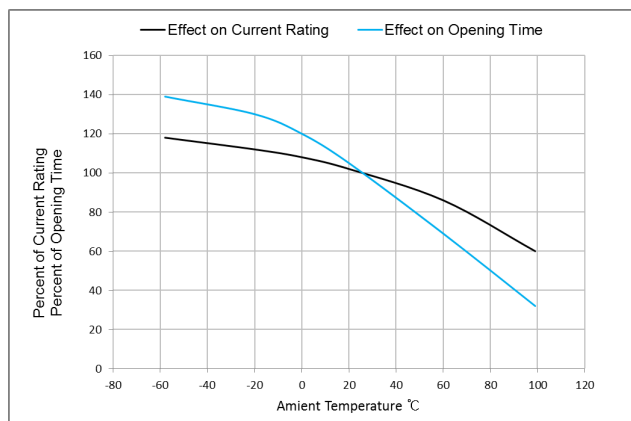
- Fuse-holder;
- Connecting cable size;
- Contacting resistance between fuse clip and fuse, etc.

The above factors should be taken into consideration when selecting a fuse at a 25 °C ambient Temp.. To ensure the fuse operating continuously and properly, the following conditions shall be required:

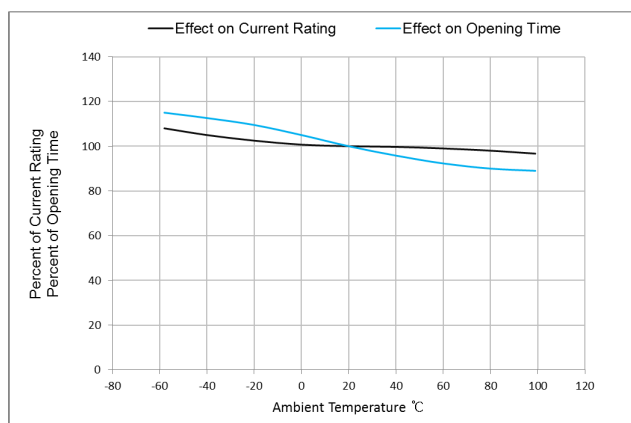
- Fuse designed to IEC standard: Rated Current (I_N)=steady state current of circuit/0.9.
- Fuse designed to UL standard: Rated Current (I_N)=steady state current of circuit/0.75.

Ambient Temp.

The current carrying capacity tests of a fuse are performed at 25 °C and will be effected by the changes of the ambient temp.. The higher the ambient temp. is, the shorter the fuse life time will be, and the lower the current carrying capacity will be. So the ambient temp. shall be considered for proper fuse selection. Refer to the following charts showing its effect on the current carrying capacity of all kinds of fuse:



- (1) Effect on rating and opening time in $5/I_N$ of traditional time-lag and medium time-lag fuse.



- (2) Effect on rating and opening time in $5/I_N$ of fast acting fuse.

Pulse

Pulse produces thermal cycling and mechanical fatigue which could affect the life time of fuse. The selected fuse should have an I^2t value much greater than the I^2t value of pulse. Refer to Table A showing the relationship between the life time of fuse(the endurable times of pulse shock) and U (ratio between pulse I^2t value and fuse I^2t value). The I^2t value of a fuse presented in this catalog may be for your reference. The I^2t value of a pulse can be approximated from the following formulas for a typical wave shape, refer to Table B.

Endurable times of pulse shock	U (Ratio)
100000	20%
10000	30%
1000	40%

Note: Adequate interval(5 - 10 s) must be required between pulse events to allow the heat from the previous event to dissipate.

Table A

Wave Shape			
I^2t Formula	$i_1^2 t_1$	$(1/3)(i_1^2 + i_1 i_2 + i_2^2) t_1$	$(1/3) i_1^2 t_1$
Wave Shape			
I^2t Formula	$(1/2) i_1^2 t_1$	$(1/5) i_1^2 t_1$	$(1/2) i_1^2 t_1$

Table B

Proving

The selected sample should be tested in the actual circuit to verify the right selection. The testing should include the tests under normal and fault conditions to ensure that the fuse will operate properly in the circuit.



ATTENTION

Inspection

Cold Resistance Test

- Applied current shall be less than 10% of rated current, at ambient temp. of $(25 \pm 2) ^\circ\text{C}$.
- (4-Wire) Resistance Measurement.

Usage

- Do not touch the fuse body or lead wire when power on, avoiding scald or electric shock.
- Air pressure is 80 kPa to 106 kPa. These values represent an altitude of -500 m to +2,000 m, respectively.

Replace

For safety reasons, the Fuse is the non-resettable product, please insure that the alternative Fuse is the same type when replace it.

Storage

Please store the Fuse without high temperature, high humidity or corrosive gas. To avoid reducing the solderability of the lead wire, please use them up within 1 year after receiving the goods.

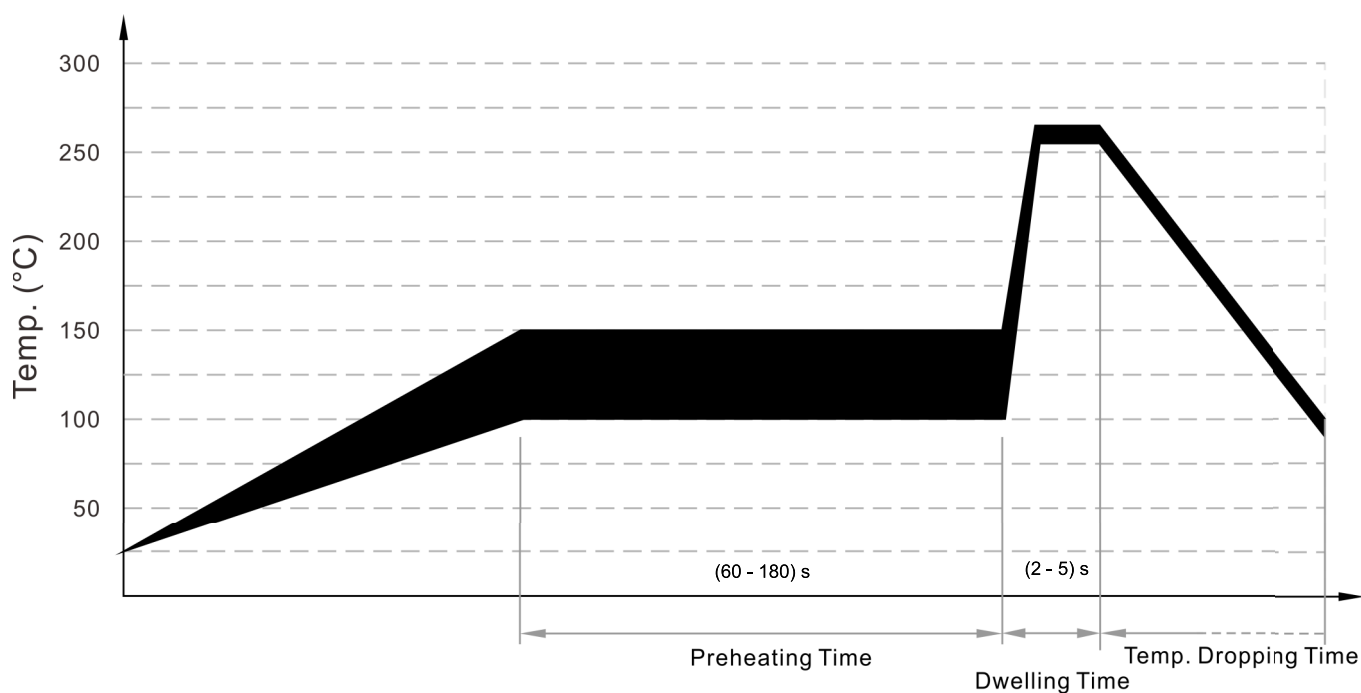
Installation

Mechanical stress

Do not apply mechanical stress to the fuse body during or after the installation.

Soldering Parameters

Wave soldering Parameters (Reference)



Item	Temp. (°C)	Time (s)
Preheating	100 - 150	60 - 180
Dwelling	260±5	2 - 5

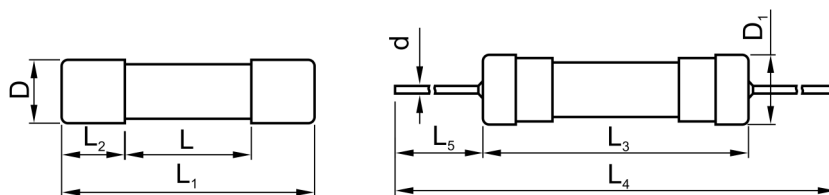
Recommended Hand-Solder Parameters

Solder Iron Temp.: $(350 \pm 5) ^\circ\text{C}$

Heating Time: 5 s Max.

Installation Position

Do not install the fuse on an assembly that may often subject to severe continuous vibration.



Dimensions (mm)

L	L ₁	L ₂	L ₃	L ₄	L ₅	D	D ₁	d
10±2	20.0±0.5	5.00 ^{+0.25} ₀	21±1	97±2	38±2	Φ5.00 ^{+0.25} ₀	Φ5.5±0.2	≤6.3A: Φ0.65±0.05 >6.3A - 10A: Φ0.80±0.05 >10A: Φ1.20±0.05

Key Features

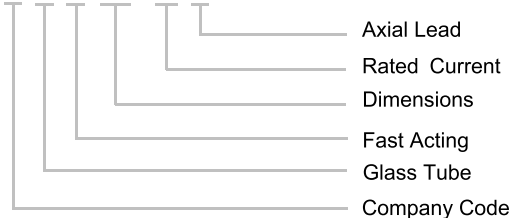
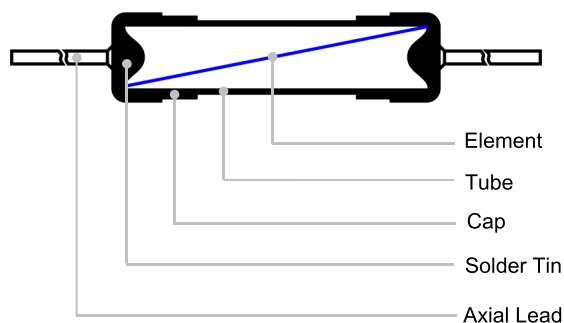
- Φ5 mm × 20 mm Physical Size
- Fast Acting
- Low-breaking Capacity
- Glass tube, Nickel-plated Brass Endcap Construction
- Designed to IEC 60127-2/Sheet2.GB 9364-2/Sheet2
- RoHS & REACH Compliant

Applications

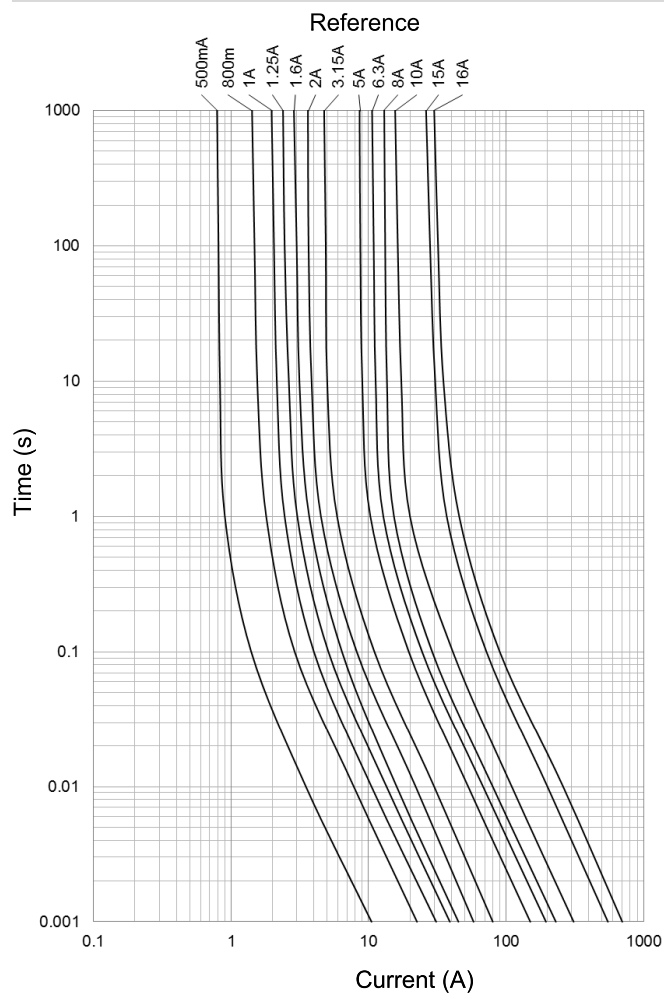
- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

Part Number System









S G F 520-1A-L

**Structure Diagrams****Agency Approvals**

- CCC: (1 - 6.3) A:2011010207516066
- CQC: (8 - 10) A:CQC11012065997
Axial Leads (1 - 10) A:CQC11012065997
- VDE: (1 - 10) A:40033351
- KC: (1 - 2) A:SU05023-11007; (3.15 - 6.3) A:SU05023-11008; (8 - 10) A:SU05023-11009
- PSE: (1 - 5) A:PSE11020385; (6.3 - 10) A:PSE1102038
6 Axial Leads (1A - 5) A:PSE11020387; (6.3 - 10) A:PSE11020388
- UL / CUL: (1 - 10) A:E345932

Time Current Curve

Specifications

Model	Rated Current	Rated Voltage	Rated Breaking Capacity	Typical DC Cold Resistance ^a	Max. Voltage Drop ^b	Typical Melting I^2t	Agency Approvals						Environmental Status	
		(Vac)	(A)	(mΩ)	(mV)	(A ² Sec)								
SGF520-500mA	500 mA	250	35		1000		○	○	○	○	○	○	●	●
SGF520-630mA	630 mA	250	35		650		○	○	○	○	○	○	●	●
SGF520-800mA	800 mA	250	35		240		○	○	○	○	○	○	●	●
SGF520-1A	1 A	250	35	95.00	200	1.50	●		●	●	●	●	●	●
SGF520-1.25A	1.25 A	250	35	80.00	200	2.59	●		●	●	●	●	●	●
SGF520-1.6A	1.6 A	250	35	60.00	190	4.25	●		●	●	●	●	●	●
SGF520-2A	2 A	250	35	50.00	170	6.24	●		●	●	●	●	●	●
SGF520-3.15A	3.15 A	250	35	32.00	150	8.93	●		●	●	●	●	●	●
SGF520-5A	5 A	250	50	19.00	130	36.00	●		●	●	●	●	●	●
SGF520-6.3A	6.3 A	250	63	15.00	130	46.04	●		●	●	●	●	●	●
SGF520-8A	8 A	250	80	12.00	130	69.12		●	●	●	●	●	●	●
SGF520-10A	10 A	250	100	9.00	130	144.00		●	●	●	●	●	●	●
SGF520-12A	12 A	250	120		110			○	○	○	○	○	●	●
SGF520-12.5A	12.5 A	250	125		100			○	○	○	○	○	●	●
SGF520-15A	15 A	250	150		100	585.00		○	○	○	○	○	●	●
SGF520-16A	16 A	250	160		100	715.35		○	○	○	○	○	●	●
SGF520-20A	20 A	250	200		100	945.78		○	○	○	○	○	●	●

○-On-going.

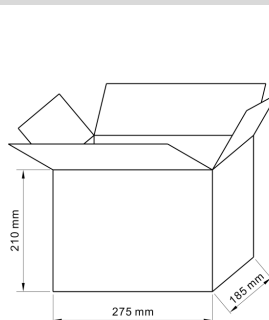
^a-DC Cold Resistance (Measured at <10% of rated current).^b-Max. Voltage Drop (voltage drop was measured at 20 °C ambient temp. at rated current).

Pre-arcing Time/Current Characteristic

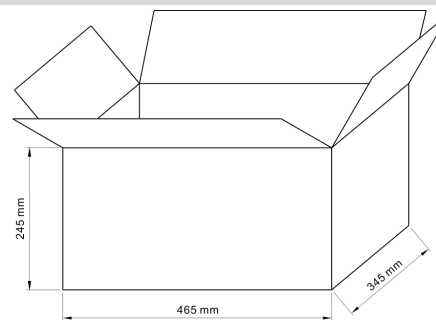
Rated Current	2.1I _N	2.75I _N		4I _N		10I _N
	Max.	Min.	Max.	Min.	Max.	Max.
(0.032 - 0.1) A	30 minutes	10 ms	500 ms	3 ms	100 ms	20 ms
(0.125 - 6.3) A	30 minutes	50 ms	2 s	10 ms	300 ms	20 ms
(8 - 10) A	30 minutes	50 ms	2 s	10 ms	400 ms	40 ms
(12 - 20) A	30 minutes	100 ms	6 s	20 ms	600 ms	60 ms

Packaging Information

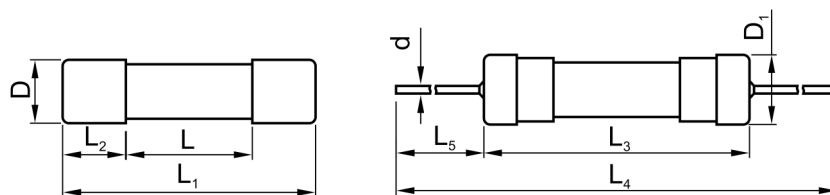
Packaging Code	Description
Endcaps	10000 PCS/Carton
Axial Leads	4000 PCS/Carton



Endcaps



Axial Leads



Dimensions (mm)

L	L ₁	L ₂	L ₃	L ₄	L ₅	D	D ₁	d
10±2	20.0±0.5	5.00 ^{+0.25} ₀	21±1	97±2	38±2	Φ5.00 ^{+0.25} ₀	Φ5.5±0.2	≤6.3A: Φ0.65±0.05 >6.3A - 10A: Φ0.80±0.05 >10A: Φ1.20±0.05

Key Features

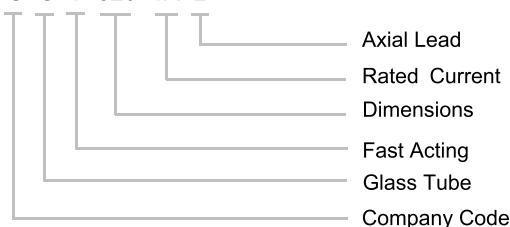
- Φ5 mm × 20 mm Physical Size
- Time Lag
- Low-breaking Capacity
- Glass tube, Nickel-plated Brass Endcap Construction
- Designed to IEC 60127-2/Sheet3.GB 9364-2/Sheet3
- RoHS & REACH Compliant

Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

Part Number System

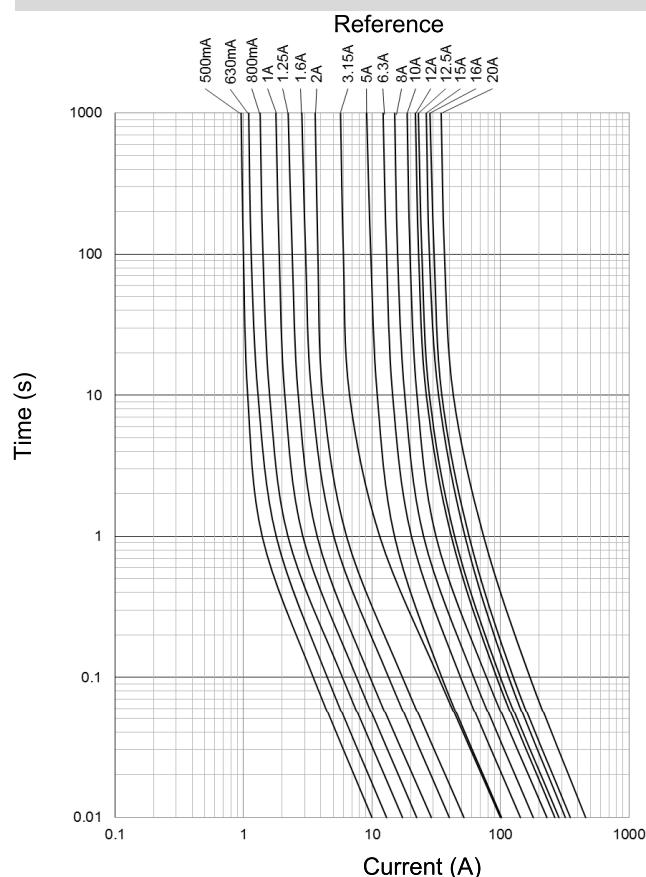
S G T 520-1A-L



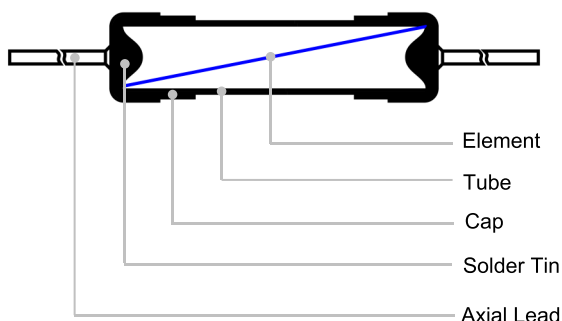
Agency Approvals

- CCC: (1 - 6.3) A:2011010207516067
CQC: (8 - 10) A:CQC11012065996;
(12.5 - 16) A:CQC14012113258
Axial Leads (1 - 10) A:CQC11012065996;
(12.5 - 16):CQC14012113258
- VDE:(1 - 10) A:40033355
- KC:(1 - 2) A:SU05023-11006; (3.15 - 6.3) A:SU05023-11004; (8 - 10) A:SU05023-11005
Axial Leads (1 - 2) A:SU05023-11006; (3.15 - 6.3) A:S
U05023-11004; (8 - 10) A:SU05023-11005
- PSE:(1 - 5) A:PSE11020389; (6.3 - 10) A:PSE11020390;
(12 - 15) A:PSE14020785; (16 - 20) A:PSE14020786
Axial Leads (1 - 5) A:PSE11020391; (6.3 - 10) A:PSE11020392;
(12 - 15) A:PSE14020785; (16 - 20) A:PSE14020786
- UL / CUL:(1 - 10) A:E345932









Time Current Curve



Structure Diagrams



Specifications

Model	Rated Current	Rated Voltage	Rated Breaking Capacity	Typical DC Cold Resistance ^a	Max. Voltage Drop ^b	Typical Melting I ² t	Agency Approvals						Environmental Status	
														
		(Vac)	(A)	(mΩ)	(mV)	(A ² Sec)	CCC	CQC	VDE	KC	PSE	UL / CUL	RoHS	REACH
SGT520-500mA	500 mA	250	35	208.1	900	1.02	○		○	○	○	○	●	●
SGT520-630mA	630 mA	250	35	171.5	300	1.78	○		○	○	○	○	●	●
SGT520-800mA	800 mA	250	35	115.5	250	3.52	○		○	○	○	○	●	●
SGT520-1A	1 A	250	35	85.00	150	5.70	●		●	●	●	●	●	●
SGT520-1.25A	1.25 A	250	35	56.00	150	11.20	●		●	●	●	●	●	●
SGT520-1.6A	1.6 A	250	35	46.00	150	20.99	●		●	●	●	●	●	●
SGT520-2A	2 A	250	35	38.00	150	30.80	●		●	●	●	●	●	●
SGT520-3.15A	3.15 A	250	35	21.00	100	103.19	●		●	●	●	●	●	●
SGT520-5A	5 A	250	50	12.00	100	117.50	●		●	●	●	●	●	●
SGT520-6.3A	6.3 A	250	63	10.00	100	230.20	●		●	●	●	●	●	●
SGT520-8A	8 A	250	80	8.00	100	355.84		●	●	●	●	●	●	●
SGT520-10A	10 A	250	100	5.50	100	570.00		●	●	●	●	●	●	●
SGT520-12A	12 A	250	120	3.96	90	648.00		○	○	○	●	○	●	●
SGT520-12.5A	12.5 A	250	125	3.59	80	812.5		●	○	○	●	○	●	●
SGT520-15A	15 A	250	150	2.87	80	1350		○	○	○	●	○	●	●
SGT520-16A	16 A	250	160	2.58	80	1587		●	○	○	●	○	●	●
SGT520-20A	20 A	250	200	2.04	80	2480		○	○	○	●	○	●	●

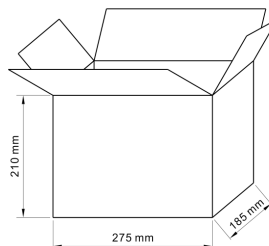
○-On-going.

Pre-arcing Time/Current Characteristic

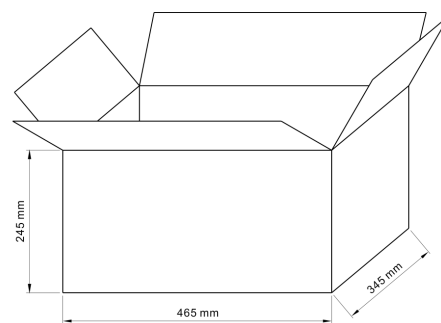
Rated Current	2.1I _N	2.75I _N		4I _N		10I _N	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.
(0.2 - 6.3) A	2 minutes	600 ms	10 s	150 ms	3 s	20 ms	300 ms
(8 - 10) A	2 minutes	600 ms	10 s	150 ms	3 s	20 ms	300 ms
(12 - 20) A	2 minutes	600 ms	10 s	150 ms	3 s	20 ms	300 ms

Packaging Information

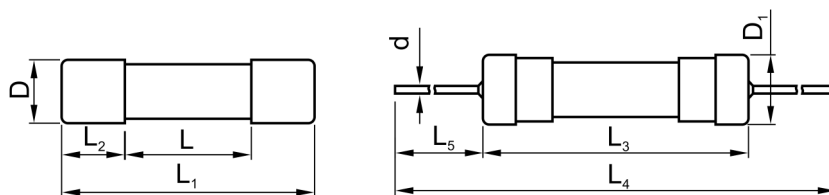
Packaging Code	Description
Endcaps	10000 PCS/Carton
Axial Leads	4000 PCS/Carton



Endcaps



Axial Leads



Dimensions (mm)

L	L ₁	L ₂	L ₃	L ₄	L ₅	D	D ₁	d
10±2	20.0±0.5	5.00 ^{+0.25} ₀	21±1	97±2	38±2	Φ5.00 ^{+0.25} ₀	Φ5.5±0.2	≤6.3A: Φ0.65±0.05 >6.3A - 10A: Φ0.80±0.05 >10A: Φ1.20±0.05

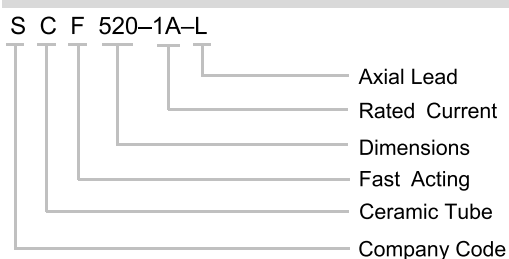
Key Features

- Φ5 mm × 20 mm Physical Size
- Fast Acting
- High-breaking Capacity
- Ceramic tube, Nickel-plated Brass Endcap Construction
- Designed to IEC 60127-2/Sheet1.GB 9364-2/Sheet1
- RoHS & REACH Compliant

Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

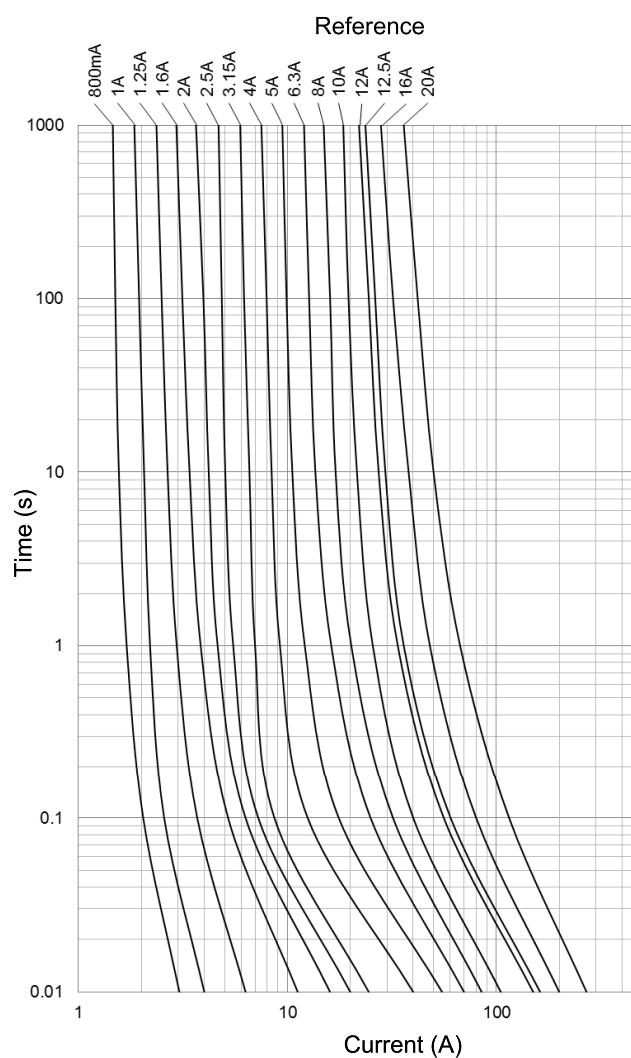
Part Number System



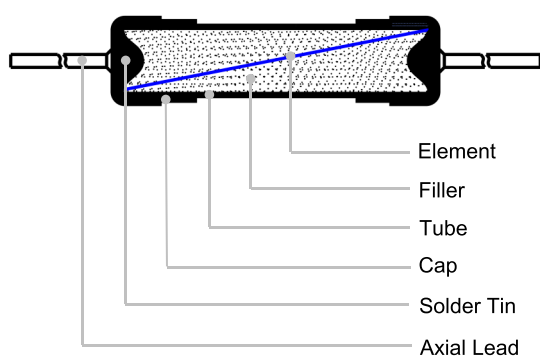
Agency Approvals

- CCC:TBA
- CQC:TBA
- VDE:TBA
- KC:TBA
- PSE:TBA
- UL / CUL:TBA









Time Current Curve



Structure Diagrams



Specifications

Model	Rated Current	Rated Voltage	Rated Breaking Capacity	Max. Voltage Drop ^a	Typical Melting I^2t	Agency Approvals						Environmental Status	
													
		(Vac)	(A)	(mV)	(A ² Sec)	CCC	CQC	VDE	KC	PSE	UL / CUL	RoHS	REACH
SCF520-200mA	200 mA	250	1500	3500		○		○	○	○	○	●	●
SCF520-250mA	250 mA	250	1500	2800		○		○	○	○	○	●	●
SCF520-315mA	315 mA	250	1500	2500		○		○	○	○	○	●	●
SCF520-400mA	400 mA	250	1500	2000		○		○	○	○	○	●	●
SCF520-500mA	500 mA	250	1500	1800		○		○	○	○	○	●	●
SCF520-630mA	630 mA	250	1500	1500		○		○	○	○	○	●	●
SCF520-800mA	800 mA	250	1500	1200		○		○	○	○	○	●	●
SCF520-1A	1 A	250	1500	1000		○		○	○	○	○	●	●
SCF520-1.25A	1.25 A	250	1500	800		○		○	○	○	○	●	●
SCF520-1.6A	1.6 A	250	1500	600		○		○	○	○	○	●	●
SCF520-2A	2 A	250	1500	500		○		○	○	○	○	●	●
SCF520-2.5A	2.5 A	250	1500	400		○		○	○	○	○	●	●
SCF520-3.15A	3.15 A	250	1500	350		○		○	○	○	○	●	●
SCF520-4A	4 A	250	1500	300		○		○	○	○	○	●	●
SCF520-5A	5 A	250	1500	250		○		○	○	○	○	●	●
SCF520-6.3A	6.3 A	250	1500	200		○		○	○	○	○	●	●
SCF520-8A	8 A	250	1500	200			○	○	○	○	○	●	●
SCF520-10A	10 A	250	1500	200			○	○	○	○	○	●	●
SCF520-12A	12 A	250	1500	200				○	○	○	○	●	●
SCF520-12.5A	12.5 A	250	1500	180			○	○	○	○	○	●	●
SCF520-15A	15 A	250	600	180				○	○	○	○	●	●
SCF520-16A	16 A	250	600	180			○	○	○	○	○	●	●
SCF520-20A	20 A	250	500	150				○	○	○	○	●	●

○-On-going.

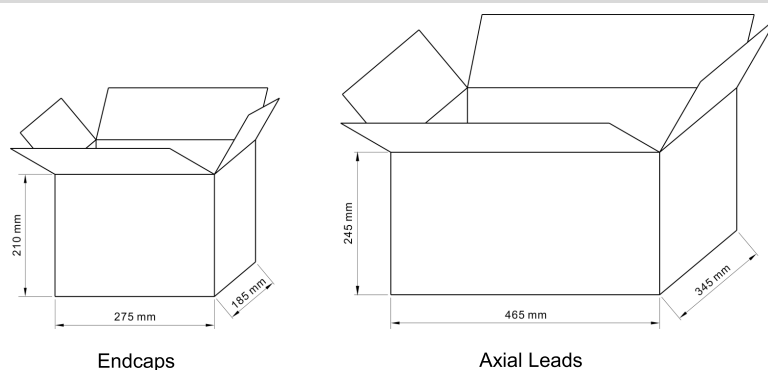
^a-Max. Voltage Drop (voltage drop was measured at 20 °C ambient temp. at rated current).

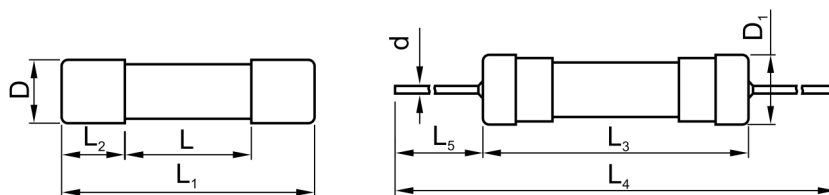
Pre-arcing Time/Current Characteristic

Rated Current	2.1I _N	2.75I _N		4I _N		10I _N
	Max.	Min.	Max.	Min.	Max.	Max.
(0.2 - 4) A	30 minutes	10 ms	2 s	3 ms	300 ms	20 ms
(4 - 6.3) A	30 minutes	10 ms	3 s	3 ms	300 ms	20 ms
(8 - 10) A	30 minutes	40 ms	20 s	10 ms	1 s	30 ms
(12 - 20) A	30 minutes	40 ms	20 s	10 ms	1 s	40 ms

Packaging Information

Packaging Code	Description
Endcaps	10000 PCS/Carton
Axial Leads	4000 PCS/Carton





Dimensions (mm)

L	L ₁	L ₂	L ₃	L ₄	L ₅	D	D ₁	d
10±2	20.0±0.5	5.00 ^{+0.25} ₀	21±1	97±2	38±2	Φ5.00 ^{+0.25} ₀	Φ5.5±0.2	≤6.3A: Φ0.65±0.05 >6.3A - 10A: Φ0.80±0.05 >10A: Φ1.20±0.05

Key Features

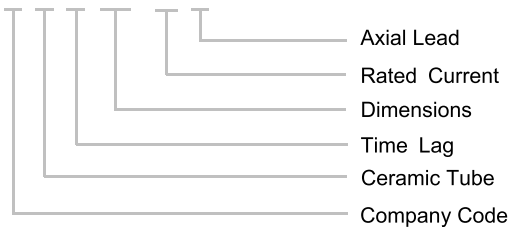
- Φ5 mm × 20 mm Physical Size
- Time Lag
- High-breaking Capacity
- Ceramic tube, Nickel-plated Brass Endcap Construction
- Designed to IEC 60127-2/Sheet5.GB 9364-2/Sheet5
- RoHS & REACH Compliant

Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

Part Number System

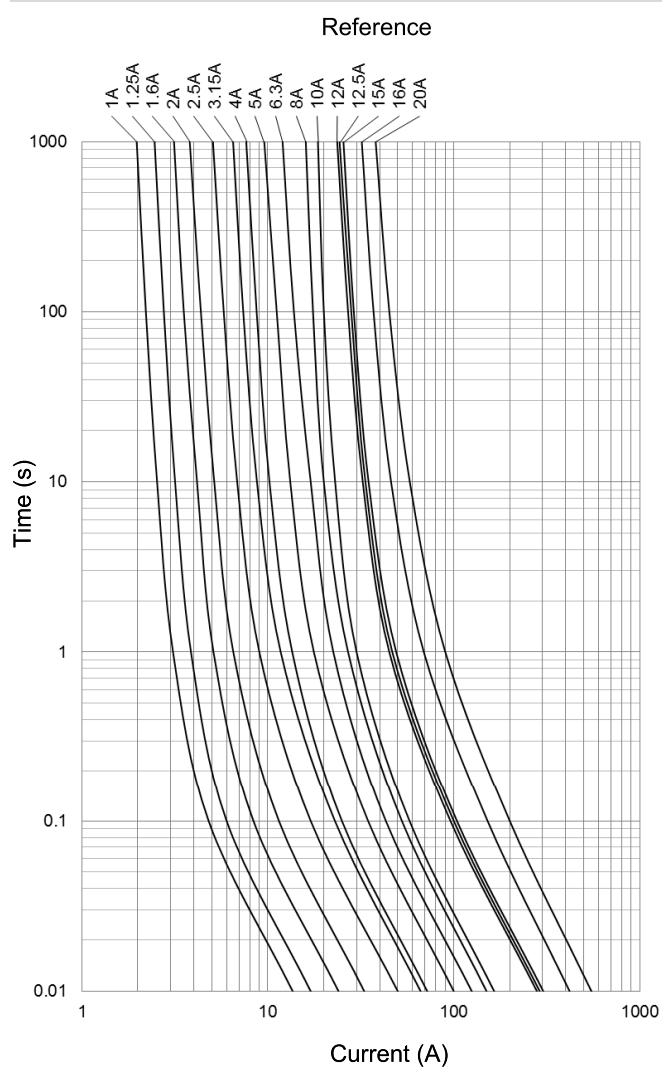
S C T 520-1A-L



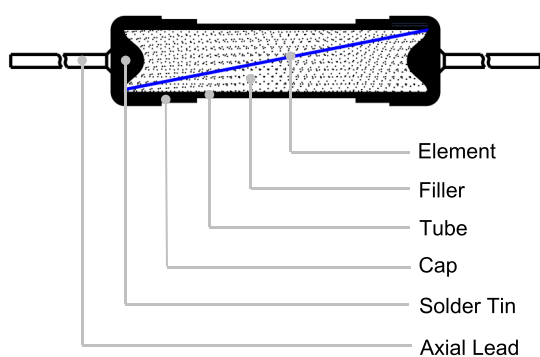
Agency Approvals

- CCC:TBA
- CQC:TBA
- VDE:TBA
- KC:TBA
- PSE:TBA
- UL / CUL:TBA









Time Current Curve



Structure Diagrams



Specifications

Model	Rated Current	Rated Voltage	Rated Breaking Capacity	Max. Voltage Drop ^a	Typical Melting I ² t	Agency Approvals						Environmental Status	
													
		(Vac)	(A)	(mV)	(A ² Sec)	CCC	CQC	VDE	KC	PSE	UL / CUL	RoHS	REACH
SCT520-200mA	200 mA	250	1500	2100		○		○	○	○	○	●	●
SCT520-250mA	250 mA	250	1500	1500		○		○	○	○	○	●	●
SCT520-315mA	315 mA	250	1500	1100		○		○	○	○	○	●	●
SCT520-400mA	400 mA	250	1500	1000		○		○	○	○	○	●	●
SCT520-500mA	500 mA	250	1500	850		○		○	○	○	○	●	●
SCT520-630mA	630 mA	250	1500	650		○		○	○	○	○	●	●
SCT520-800mA	800 mA	250	1500	500		○		○	○	○	○	●	●
SCT520-1A	1 A	250	1500	350		○		○	○	○	○	●	●
SCT520-1.25A	1.25 A	250	1500	300		○		○	○	○	○	●	●
SCT520-1.6A	1.6 A	250	1500	200		○		○	○	○	○	●	●
SCT520-2A	2 A	250	1500	190		○		○	○	○	○	●	●
SCT520-2.5A	2.5 A	250	1500	180		○		○	○	○	○	●	●
SCT520-3.15A	3.15 A	250	1500	140		○		○	○	○	○	●	●
SCT520-4A	4 A	250	1500	100		○		○	○	○	○	●	●
SCT520-5A	5 A	250	1500	100		○		○	○	○	○	●	●
SCT520-6.3A	6.3 A	250	1500	100		○		○	○	○	○	●	●
SCT520-8A	8 A	250	1500	100			○	○	○	○	○	●	●
SCT520-10A	10 A	250	1500	100			○	○	○	○	○	●	●
SCT520-12A	12 A	250	1500	100				○	○	○	○	●	●
SCT520-12.5A	12.5 A	250	1500	80			○	○	○	○	○	●	●
SCT520-15A	15 A	250	600	80				○	○	○	○	●	●
SCT520-16A	16 A	250	600	80			○	○	○	○	○	●	●
SCT520-20A	20 A	250	500	80				○	○	○	○	●	●

○-On-going.

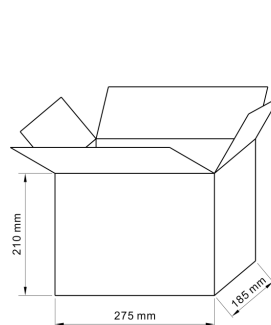
^a-Max. Voltage Drop (voltage drop was measured at 20 °C ambient temp. at rated current).

Pre-arcing Time/Current Characteristic

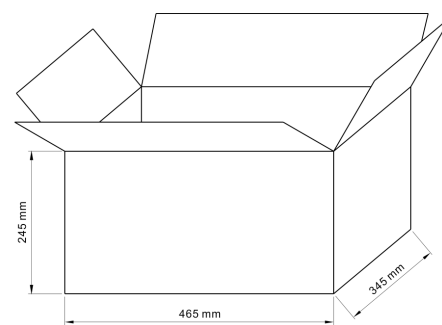
Rated Current	2.1I _N	2.75I _N		4I _N		10I _N	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.
(0.2 - 0.8) A	30 minutes	250 ms	80 s	50 ms	5 s	5 ms	150 ms
(0.8 - 3.15) A	30 minutes	750 ms	80 s	95 ms	5 s	10 ms	150 ms
(4 - 10) A	30 minutes	750 ms	80 s	150 ms	5 s	10 ms	150 ms
(12 - 20) A	/	750 ms	80 s	150 ms	8 s	10 ms	150 ms

Packaging Information

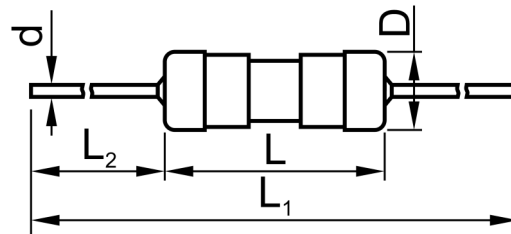
Packaging Code	Description
Endcaps	10000 PCS/Carton
Axial Leads	4000 PCS/Carton



Endcaps



Axial Leads



Dimensions (mm)

L	L ₁	L ₂	D	d
11±1	71±2	30±1	Φ4.00±0.15	Φ0.60±0.05

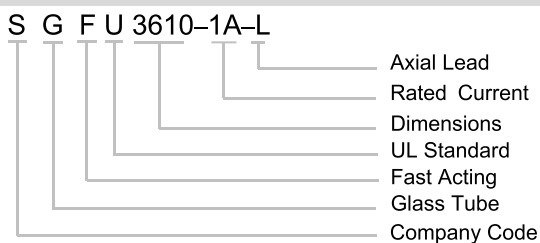
Key Features

- Φ3.6 mm × 10 mm Physical Size
- Fast Acting
- Low-breaking Capacity
- Glass tube, Nickel-plated Brass Endcap Construction
- Designed to UL 248-1 & UL 248-14
- RoHS & REACH Compliant

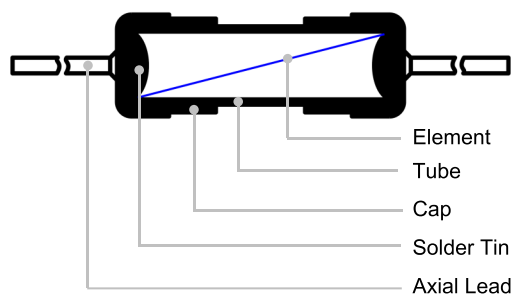
Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

Part Number System



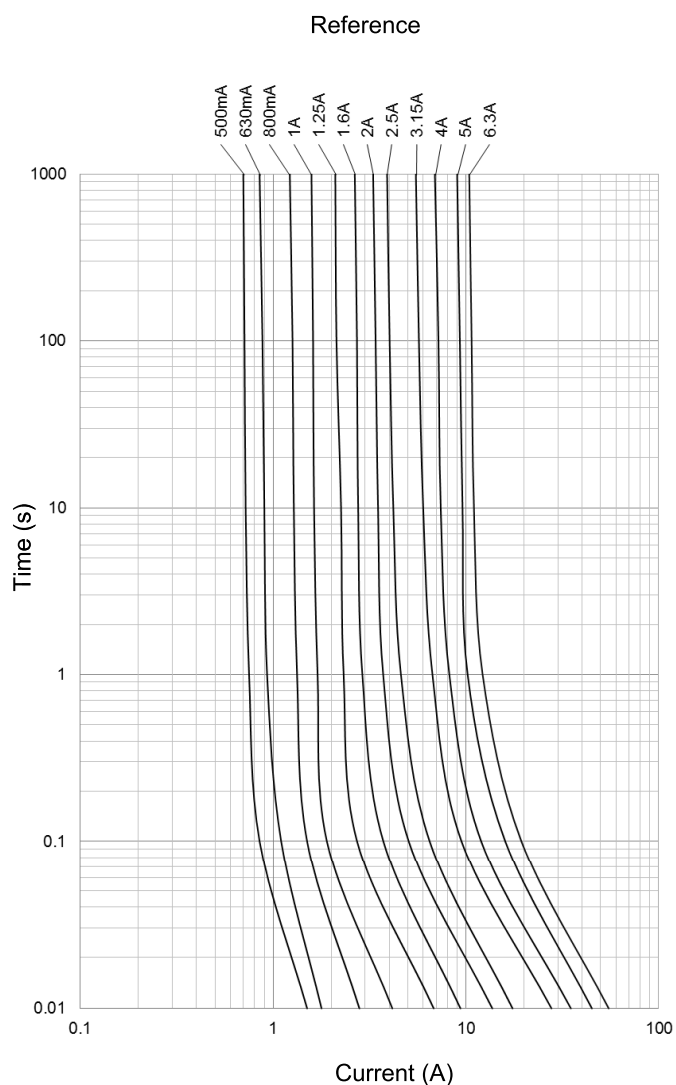
Structure Diagrams






Agency Approvals

- UL / CUL: (0.5 - 6.3) A: 20130304-E345932

Time Current Curve



Specifications

Model	Rated Current	Rated Voltage	Interrupting Rating (amps) at Rated Voltage (50Hz)	Typical Melting I^2t	Agency Approvals		Environmental Status	
								
		(Vac)	(A)	(A²Sec)	UL	CUL	RoHS	REACH
SGFU3610-500mA-L	500 mA	250	50		●	●	●	●
SGFU3610-630mA-L	630 mA	250	50		●	●	●	●
SGFU3610-800mA-L	800 mA	250	50		●	●	●	●
SGFU3610-1A-L	1 A	250	50		●	●	●	●
SGFU3610-1.25A-L	1.25 A	250	50	0.468	●	●	●	●
SGFU3610-1.6A-L	1.6 A	250	50	0.896	●	●	●	●
SGFU3610-2A-L	2 A	250	50	1.80	●	●	●	●
SGFU3610-2.5A-L	2.5 A	250	50	3.12	●	●	●	●
SGFU3610-3.15A-L	3.15 A	250	50	7.44	●	●	●	●
SGFU3610-4A-L	4 A	250	50	11.2	●	●	●	●
SGFU3610-5A-L	5 A	250	50	22.5	●	●	●	●
SGFU3610-6.3A-L	6.3 A	250	50	33.7	●	●	●	●

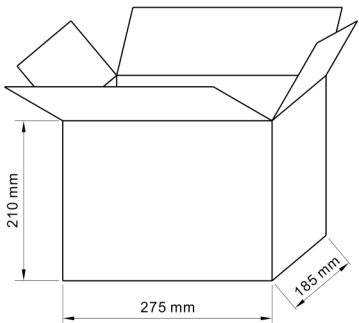
○-On-going.

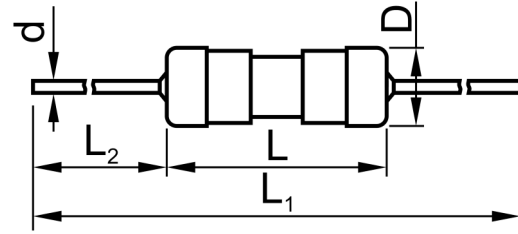
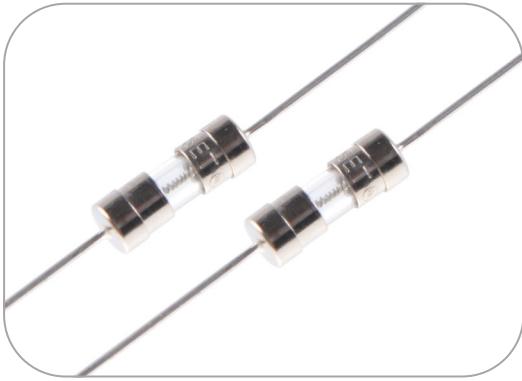
Pre-arcing Time/Current Characteristic

Rated Current	$1.0I_N$	$2.0I_N$
(0.5 - 6.3) A	4 hours Min.	60 s Max.

Packaging Information

Packaging Code	Description
Axial Leads	8000 PCS/Carton





Dimensions (mm)

L	L ₁	L ₂	D	d
11±1	71±2	30±1	Φ4.00±0.15	Φ0.60±0.05

Key Features

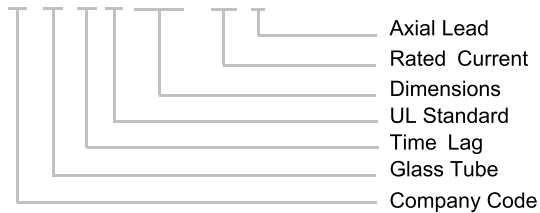
- Φ3.6 mm × 10 mm Physical Size
- Time Lag
- Low-breaking Capacity
- Glass tube, Nickel-plated Brass Endcap Construction
- Designed to UL 248-1 & UL 248-14
- RoHS & REACH Compliant

Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

Part Number System

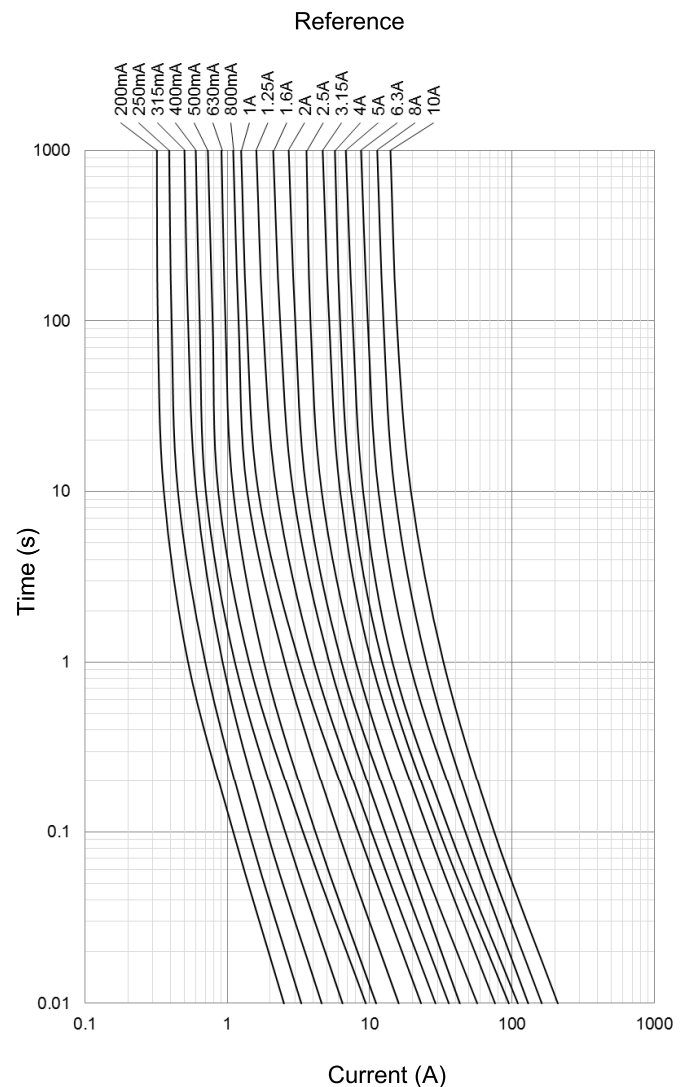
S G T U 3610-1A-L



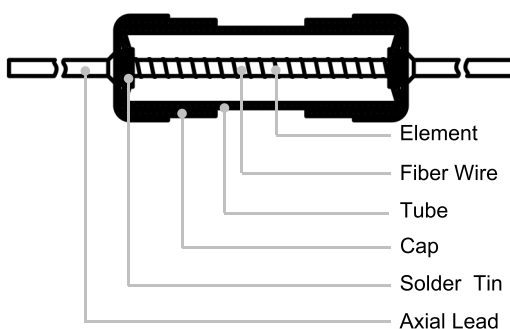
Agency Approvals

- UL / CUL: (0.2 - 6.3) A: 20130304-E345932





Time Current Curve



Structure Diagrams



Specifications

Model	Rated Current	Rated Voltage	Interrupting Rating (amps) at Rated Voltage (50Hz)	Typical DC Cold Resistance ^a	Typical Melting I^2t	Agency Approvals		Environmental Status	
									
		(Vac)	(A)	(mΩ)	(A²Sec)	UL	CUL	RoHS	REACH
SGTU3610-200mA-L	200 mA	250	50	1815	0.0840	●	●	●	●
SGTU3610-250mA-L	250 mA	250	50	1294	0.1937	●	●	●	●
SGTU3610-315mA-L	315 mA	250	50	812	0.3001	●	●	●	●
SGTU3610-400mA-L	400 mA	250	50	563	0.6240	●	●	●	●
SGTU3610-500mA-L	500 mA	250	50	410	1.087	●	●	●	●
SGTU3610-630mA-L	630 mA	250	50	263	1.521	●	●	●	●
SGTU3610-800mA-L	800 mA	250	50	217	5.216	●	●	●	●
SGTU3610-1A-L	1 A	250	50	162	10.08	●	●	●	●
SGTU3610-1.25A-L	1.25 A	250	50	110	15.31	●	●	●	●
SGTU3610-1.6A-L	1.6 A	250	50	82.8	26.43	●	●	●	●
SGTU3610-2A-L	2 A	250	50	57.7	39.12	●	●	●	●
SGTU3610-2.5A-L	2.5 A	250	50	38.6	41.88	●	●	●	●
SGTU3610-3.15A-L	3.15 A	250	50	36.3	115.6	●	●	●	●
SGTU3610-4A-L	4 A	250	50	30.9	204.8	●	●	●	●
SGTU3610-5A-L	5 A	250	50	15.3	130.5	●	●	●	●
SGTU3610-6.3A-L	6.3 A	250	50	15.0	238.1	●	●	●	●
SGTU3610-8A-L	8 A	250	50	7.87	377.6	O	O	●	●
SGTU3610-10A-L	10 A	250	50	5.95	596.6	O	O	●	●

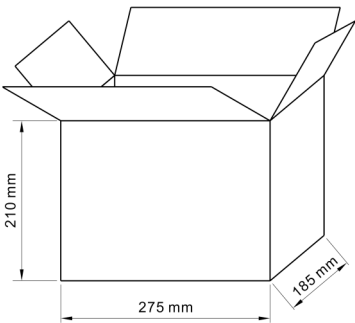
○-On-going.
^a-DC Cold Resistance (Measured at <10% of rated current).

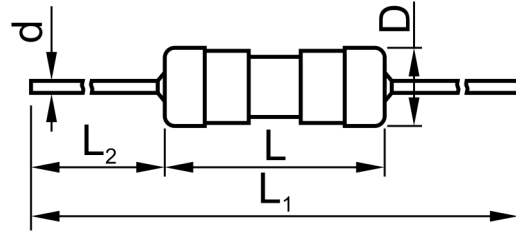
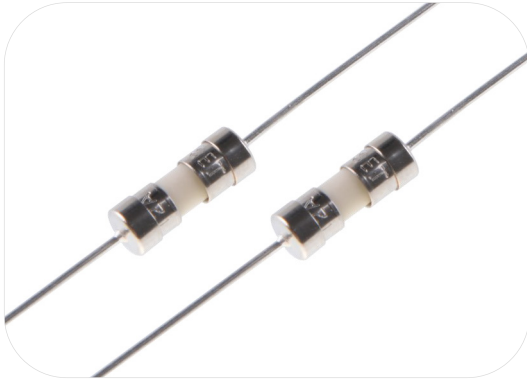
Pre-arcing Time/Current Characteristic

Rated Current	1.0I _N	2.0I _N	5.0I _N		10.0I _N	
	Min.	Max.	Min.	Max.	Min.	Max.
(0.2 - 0.4) A	4 hours	60 s	100 ms	1.5 s	20 ms	200 ms
(0.5 - 10) A	4 hours	60 s	100 ms	1.5 s	30 ms	300 ms

Packaging Information

Packaging Code	Description
Axial Leads	8000 PCS/Carton





Dimensions (mm)

L	L ₁	L ₂	D	d
11±1	71±2	30±1	Φ4.00±0.15	Φ0.60±0.05

Key Features

- Φ3.6 mm × 10 mm Physical Size
- Fast Acting
- Low-breaking capacity
- Ceramic tube, Nickel-plated Brass Endcap Construction
- Designed to UL 248-1 & UL 248-14
- RoHS & REACH Compliant

Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

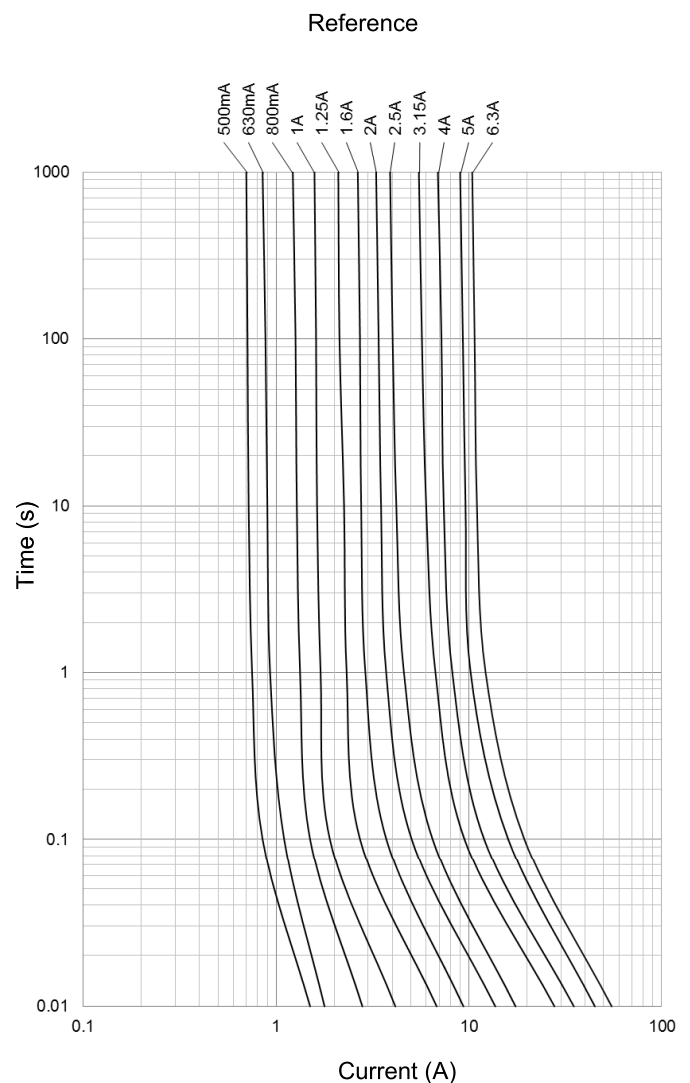
Part Number System



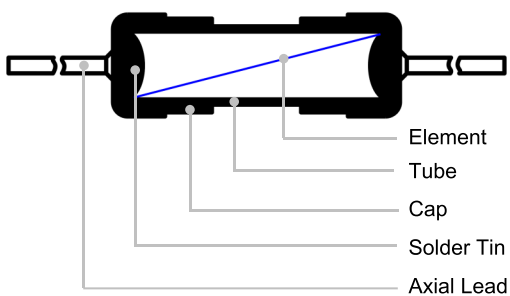
Agency Approvals

- UL:TBA





Time Current Curve



Structure Diagrams



Specifications

Model	Rated Current	Rated Voltage	Interrupting Rating (amps) at Rated Voltage (50Hz)	Typical Melting I^2t	Agency Approvals		Environmental Status	
								
		(Vac)	(A)	(A²Sec)	UL	CUL	RoHS	REACH
SCFU3610-500mA-L	500 mA	250	50		O	O	●	●
SCFU3610-630mA-L	630 mA	250	50		O	O	●	●
SCFU3610-800mA-L	800 mA	250	50		O	O	●	●
SCFU3610-1A-L	1 A	250	50		O	O	●	●
SCFU3610-1.25A-L	1.25 A	250	50	0.468	O	O	●	●
SCFU3610-1.6A-L	1.6 A	250	50	0.896	O	O	●	●
SCFU3610-2A-L	2 A	250	50	1.80	O	O	●	●
SCFU3610-2.5A-L	2.5 A	250	50	3.12	O	O	●	●
SCFU3610-3.15A-L	3.15 A	250	50	7.44	O	O	●	●
SCFU3610-4A-L	4 A	250	50	11.2	O	O	●	●
SCFU3610-5A-L	5 A	250	50	22.5	O	O	●	●
SCFU3610-6.3A-L	6.3 A	250	50	33.7	O	O	●	●

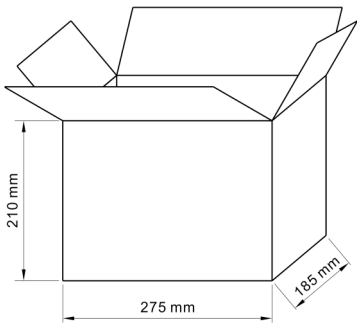
○-On-going.

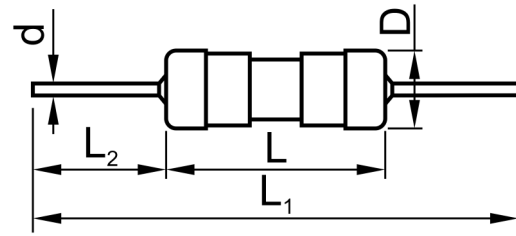
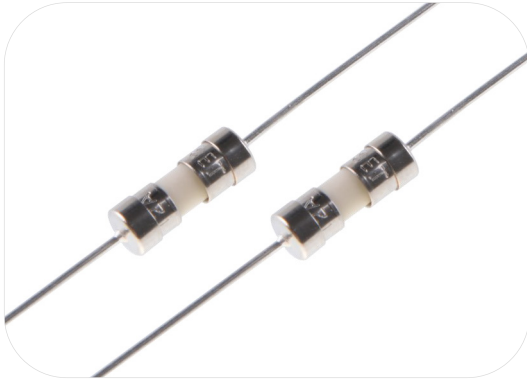
Pre-arcing Time/Current Characteristic

Rated Current	$1.0I_N$	$2.0I_N$
(0.5 - 6.3) A	4 hours Min.	60 s Max.

Packaging Information

Packaging Code	Description
Axial Leads	8000 PCS/Carton





Dimensions (mm)

L	L ₁	L ₂	D	d
11±1	71±2	30±1	$\Phi 4.00 \pm 0.15$	$\Phi 0.60 \pm 0.05$

Key Features

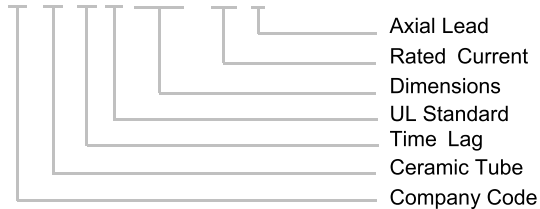
- $\Phi 3.6 \text{ mm} \times 10 \text{ mm}$ Physical Size
- Time Lag
- Low-breaking Capacity
- Ceramic Tube, Nickel-plated Brass Endcap Construction
- Designed to UL 248-1 & UL 248-14
- RoHS & REACH Compliant

Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

Part Number System

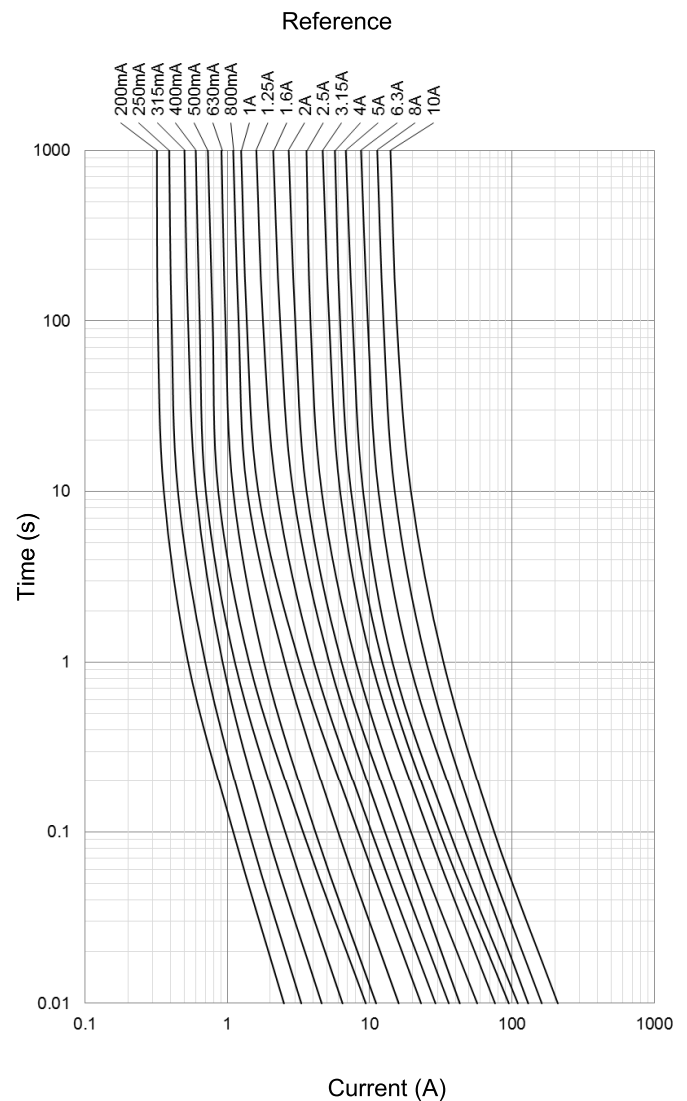
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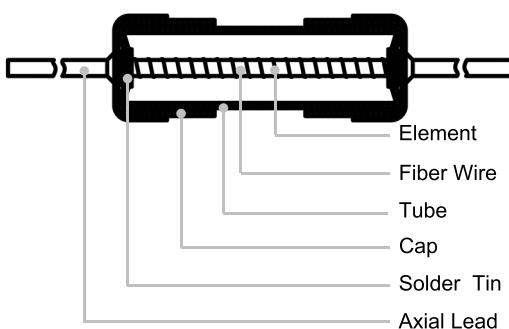
Agency Approvals

- UL:TBA





Time Current Curve



Structure Diagrams



Specifications

Model	Rated Current	Rated Voltage	Interrupting Rating (amps) at Rated Voltage (50Hz)	Typical DC Cold Resistance ^a	Typical Melting I^2t	Agency Approvals		Environmental Status	
									
		(Vac)	(A)	(mΩ)	(A²Sec)	UL	CUL	RoHS	REACH
SCTU3610-200mA-L	200 mA	250	50	1815	0.0840	O	O	●	●
SCTU3610-250mA-L	250 mA	250	50	1294	0.1937	O	O	●	●
SCTU3610-315mA-L	315 mA	250	50	812	0.3001	O	O	●	●
SCTU3610-400mA-L	400 mA	250	50	563	0.6240	O	O	●	●
SCTU3610-500mA-L	500 mA	250	50	410	1.087	O	O	●	●
SCTU3610-630mA-L	630 mA	250	50	263	1.521	O	O	●	●
SCTU3610-800mA-L	800 mA	250	50	217	5.216	O	O	●	●
SCTU3610-1A-L	1 A	250	50	162	10.08	O	O	●	●
SCTU3610-1.25A-L	1.25 A	250	50	110	15.31	O	O	●	●
SCTU3610-1.6A-L	1.6 A	250	50	82.8	26.43	O	O	●	●
SCTU3610-2A-L	2 A	250	50	57.7	39.12	O	O	●	●
SCTU3610-2.5A-L	2.5 A	250	50	38.6	41.88	O	O	●	●
SCTU3610-3.15A-L	3.15 A	250	50	36.3	115.6	O	O	●	●
SCTU3610-4A-L	4 A	250	50	30.9	204.8	O	O	●	●
SCTU3610-5A-L	5 A	250	50	15.3	130.5	O	O	●	●
SCTU3610-6.3A-L	6.3 A	250	50	15.0	238.1	O	O	●	●
SCTU3610-8A-L	8 A	250	50	7.87	377.6	O	O	●	●
SCTU3610-10A-L	10 A	250	50	5.95	596.6	O	O	●	●

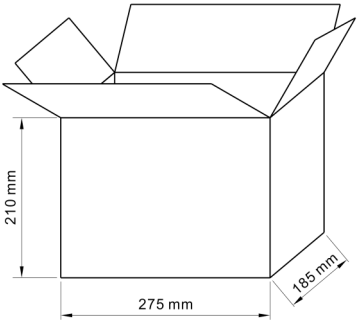
○-On-going.
^a-DC Cold Resistance (Measured at <10% of rated current).

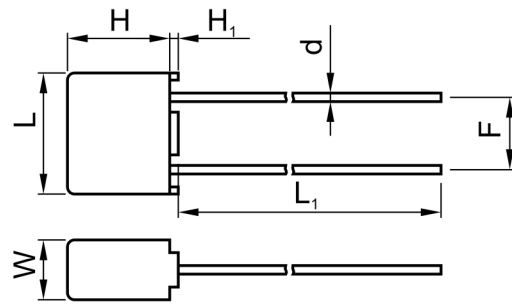
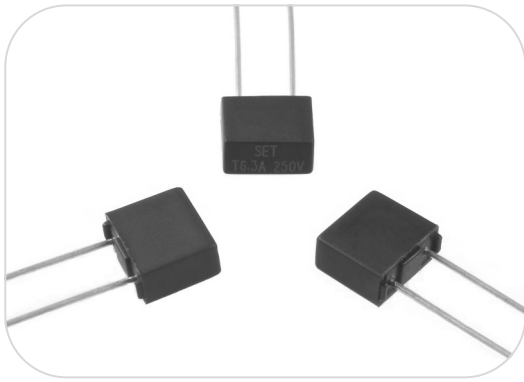
Pre-arcing Time/Current Characteristic

Rated Current	$1.0I_N$	$2.0I_N$	$5.0I_N$		$10.0I_N$	
	Min.	Max.	Min.	Max.	Min.	Max.
(0.2 - 0.4) A	4 hours	60 s	100 ms	1.5 s	20 ms	200 ms
(0.5 - 10) A	4 hours	60 s	100 ms	1.5 s	30 ms	300 ms

Packaging Information

Packaging Code	Description
Axial Leads	8000 PCS/Carton





Dimensions (mm)

L	L ₁	W	H	H ₁	d	F
8.5±0.3	19.5±0.5	4.0±0.3	7.3±0.5	0.50 Min.	Φ0.60±0.05	5.08±0.10

Key Features

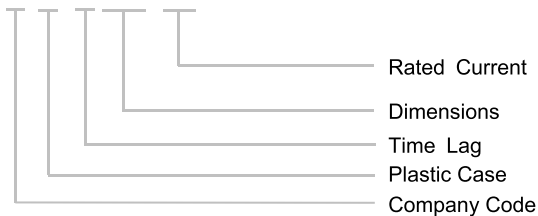
- Miniature Size
- Time Lag
- Surge protection
- Designed to IEC 60127-3/Sheet4
- RoHS & REACH Compliant

Applications

- Printers
- Air Conditioners
- Switched-Mode Power Supply(SMPS)
- Adapters
- Battery Chargers
- TVs / Displays
- Energy-saving Lighting Ballasts

Part Number System

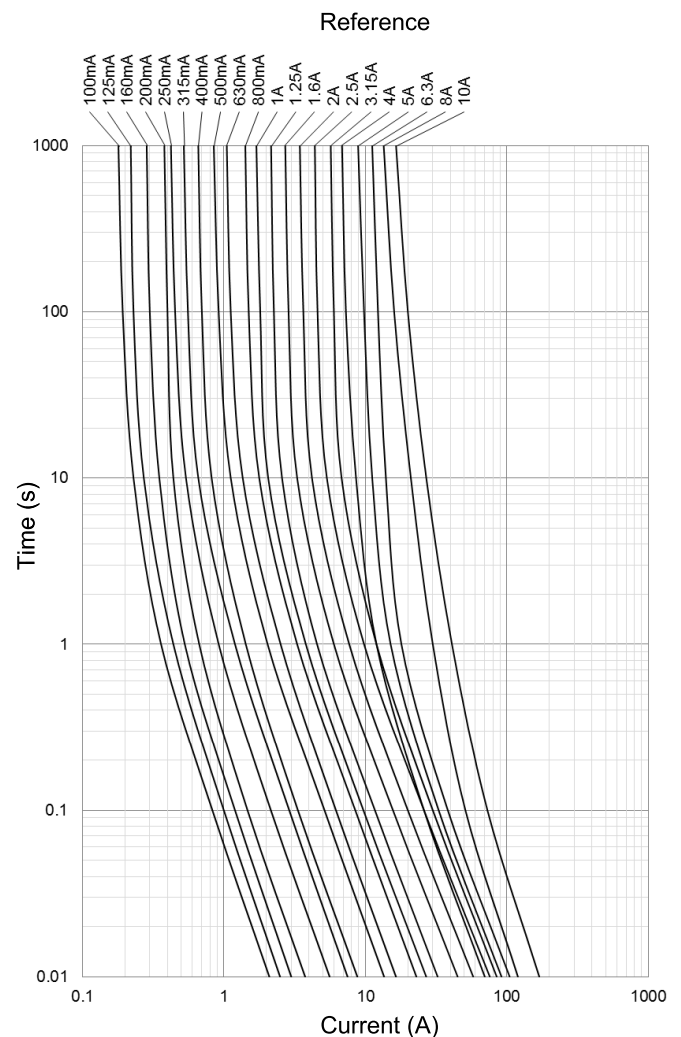
S P T 478-1A



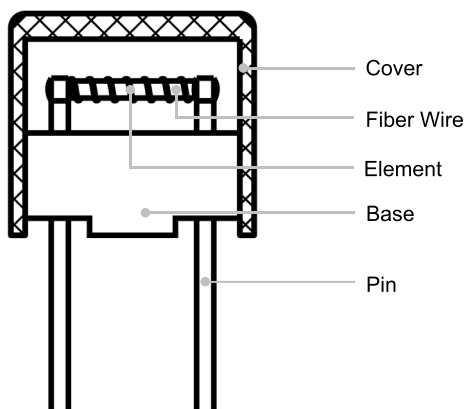
Agency Approvals

- CQC:TBA
- VDE:TBA
- KC:TBA
- PSE:TBA
- UL / CUL:TBA








Time Current Curve



Structure Diagrams



Specifications

Model	Rated Current	Rated Voltage	Rated Breaking Capacity	Max. Voltage Drop ^a	Typical Melting I^2t	Agency Approvals					Environmental Status	
												
		(Vac)	(A)	(mV)	(A²Sec)	CQC	VDE	KC	PSE	UL / CUL	RoHS	REACH
SPT478-200mA	200 mA	250	35	260	0.1685	○	○	○	○	○	●	●
SPT478-250mA	250 mA	250	35	240	0.4438	○	○	○	○	○	●	●
SPT478-315mA	315 mA	250	35	220	0.8136	○	○	○	○	○	●	●
SPT478-400mA	400 mA	250	35	200	1.056	○	○	○	○	○	●	●
SPT478-500mA	500 mA	250	35	190	2.680	○	○	○	○	○	●	●
SPT478-630mA	630 mA	250	35	180	3.810	○	○	○	○	○	●	●
SPT478-800mA	800 mA	250	35	160	7.100	○	○	○	○	○	●	●
SPT478-1A	1 A	250	35	140	9.000	○	○	○	○	○	●	●
SPT478-1.25A	1.25 A	250	35	130	13.59	○	○	○	○	○	●	●
SPT478-1.6A	1.6 A	250	35	120	24.83	○	○	○	○	○	●	●
SPT478-2A	2 A	250	35	100	37.60	○	○	○	○	○	●	●
SPT478-2.5A	2.5 A	250	35	100	67.50	○	○	○	○	○	●	●
SPT478-3.15A	3.15 A	250	35	100	93.27	○	○	○	○	○	●	●
SPT478-4A	4 A	250	40	100	51.20	○	○	○	○	○	●	●
SPT478-5A	5 A	250	50	100	85.00	○	○	○	○	○	●	●
SPT478-6.3A	6.3 A	250	63	100	99.22	○	○	○	○	○	●	●
SPT478-8A	8 A	250	80	90	185.6	○	○	○	○	○	●	●
SPT478-10A	10 A	250	100	90	270.0	○	○	○	○	○	●	●

○-On-going.

^a-Max. Voltage Drop (voltage drop was measured at 20 °C ambient temp. at rated current).

Pre-arcing Time/Current Characteristic

Rated Current	1.5I _N	2.1I _N	2.75I _N		4.0I _N		10.0I _N	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
(0.2 - 6.3) A	60 minutes	2 minutes	400 ms	10 s	150 ms	3 s	20 ms	150 ms
(8 - 10) A	60 minutes	5 minutes	1 s	20 s	150 ms	3 s	20 ms	150 ms

Packaging Information

Packaging Code	Description
TBA	TBA



Design, Manufacture, Market Circuit Protection Components
WTDP Lab for UL 60691 & UL 1449

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