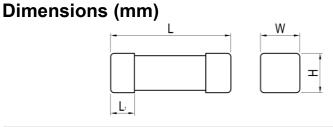


Miniature Fuses

(Mini Fuse)

SCT1032 Series, Time-Lag, Ceramic Tube





L	L ₁	W	Н
10.4 ± 0.5	2.0 ± 0.2	3.2± 0.3	3.2± 0.3

Description

 $3.2 \times 3.2 \times 10$ mm, Time-Lag, SMD fuse, designed to IEC & UL standards.

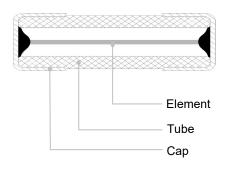
Features

- 3.2 x 3.2 × 10 mm
- Time-Lag
- Small Size
- Lead Free
- Designed to IEC 60127-7 / UL248-14
- RoHS & REACH Compliant

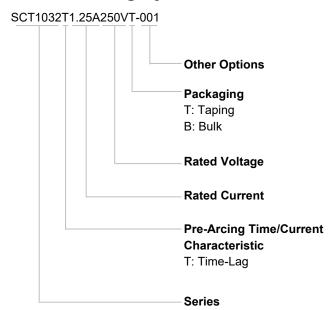
Applications

- Power Supply
- Household Appliance
- General Lighting
- Smart Home
- Office Equipment
- Electric Tool
- Medical Equipment

Structure Diagram



Part Numbering System



Agency Approvals

Agency Approvals	Agency File Number Ampere Rai	
c FL °us	E345932	0.1 to 15
TÜVRheinland	On-going	0.1 to 15
Cec	On-going	0.1 to 15



(Mini Fuse)



SCT1032 Series, Time-Lag, Ceramic Tube

Glossary

ltem	Description
пеш	Description
Fuse	An overcurrent protective device with a fusible link that operates and permanently opens the circuit on an overcurrent condition.
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.
Rated Voltage	A maximum open circuit voltage in which a fuse can be used, yet safely interrupt an over-current. Exceeding the voltage rating of a fuse impairs its ability to clear an overload or short circuit safely.
Ampere Squared Seconds <i>I</i> ² <i>t</i>	The melting, arcing, or clearing integral of a fuse, termed l^2t , is the thermal energy required to melt, arc, or clear a specific current. It can be expressed as melting l^2t , arcing l^2t or the sum of them, clearing l^2t .
Time-current Characteristics	Under stated conditions of operation, the value of time as a function of the prospective current.
Rated Breaking Capacity	Value (r.m.s. for a.c.) of prospective current that a fuse-link is capable of breaking at a stated voltage under prescribed conditions of use and behaviour.



Miniature Fuses

(Mini Fuse)

SCT1032 Series, Time-Lag, Ceramic Tube

Specifications

	Rated Current		_	Agency Approvals		Environmental		
Series	rated ourient	Rated Breaking Capacity		TŬVRheinland	Cec	c FW us	RoHs	REACH
	(A)			TUV	CQC	cURus		
SCT1032	0.1		0.03	0	0	•	•	•
SCT1032	0.125		0.045	0	0	•	•	•
SCT1032	0.16		0.08	0	0	•	•	•
SCT1032	0.2		0.13	0	0	•	•	•
SCT1032	0.25		0.2	0	0	•	•	•
SCT1032	0.315	100 A@350 VAC / 300 VAC / 250 VAC / 125 VAC	0.48	0	0	•	•	•
SCT1032	0.4	1000 A@125 VAC	0.8	0	0	•	•	•
SCT1032	0.5	30 A@250 VDC	2	0	0	•	•	•
SCT1032	0.63	1000 A@125 VDC / 75 VDC / 63 VDC / 48 VDC / 32 VDC	3.2	0	0	•	•	•
SCT1032	0.8		4.5	0	0	•	•	•
SCT1032	1		5.5	0	0	•	•	•
SCT1032	1.25		10.2	0	0	•	•	•
SCT1032	1.6		14	0	0	•	•	•
SCT1032	2		23	0	0	•	•	•
SCT1032	2.5		52	0	0	•	•	•
SCT1032	3.15		75	0	0	•	•	•
SCT1032	4		95	0	0	•	•	•
SCT1032	5		140	0	0	•	•	•
SCT1032	6.3	100 A@350 VAC / 300 VAC / 250 VAC / 125 VAC 1000 A@125 VAC 1000 A@125 VDC / 75 VDC / 63 VDC / 48 VDC / 32 VDC	200	0	0	•	•	•
SCT1032	7		290	0	0	•	•	•
SCT1032	8		400	0	0	•	•	•
SCT1032	10		445	0	0	•	•	•
SCT1032	12		550	0	0	•	•	•
SCT1032	12.5		555	0	0	•	•	•
SCT1032	15		740	0	0	•	•	•

a: I^2t value is measured at 10 I_N .

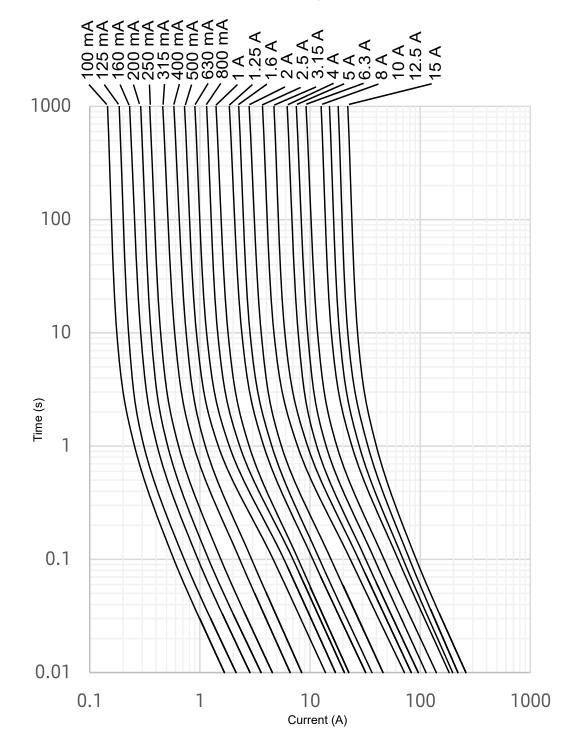
©: On-going



Opening Time / Current Characteristic

Rated Current		1.0 I _N	2.0 <i>I</i> _N 10 <i>I</i> _N		10 <i>I</i> _N
	(A)	Min.	Max.	Min.	Max.
ľ	0.1 to 15	4 Hours	60 Seconds	10 ms	100 ms

Time Current Curve (For Reference Only)





SETsafe | SET fuse

SCT1032 Series, Time-Lag, Ceramic Tube

Reliability Test

No.	Items	Inspection Standards	Standards
1	High Temp. Test	Test Condition: Temperature: (105 ± 2) °C Time: 1000 hours Test Requirement: After the test, the voltage drop shall not have changed by more than 10% of the value measured before the test. The clearing time of the fuse shall be in range.	MIL-STD-202(Test Method 108) GJB360B(Test Method 108)
2	High Humidity Test	Test Condition: Temperature: (40 ± 2) °C Humidity: 90% to 95% Time: 96 hours Test Requirement: After the test, the voltage drop shall not have changed by more than 10 % of the value measured before the test. The clearing time of the fuse shall be in range.	MIL-STD-202(Test Method 103) GJB360B(Test Method 103)
3	Thermal Shock Test	Test Condition: Per Cycle: -40 °C / 30 minutes, 85 °C / 30 minutes Time: 10 Cycles Test Requirement: After the test, the voltage drop shall not have changed by more than 10 % of the value measured before the test. The clearing time of the fuse shall be in range.	MIL-STD-202(Test Method 107) GJB360B(Test Method 107)

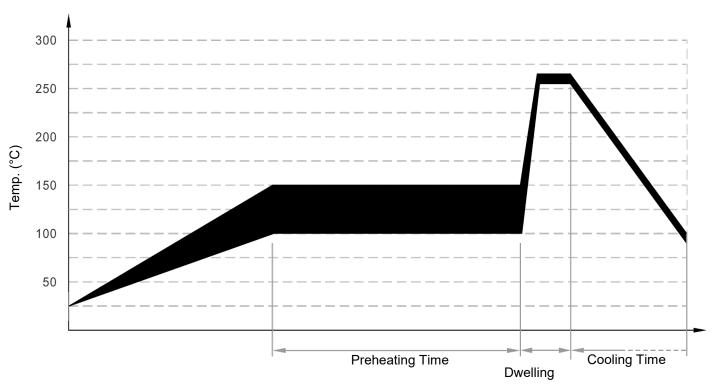
(Mini Fuse)

Installation

Mechanical stress

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

Wave soldering Parameters (For Reference Only)



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

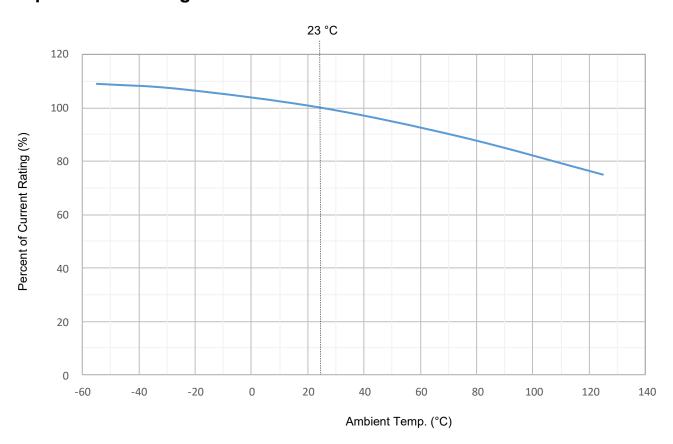
Recommended Hand-Soldering Parameters

Solder Iron Temp.: (350 ± 5) °C

Heating Time: 5 seconds Max.

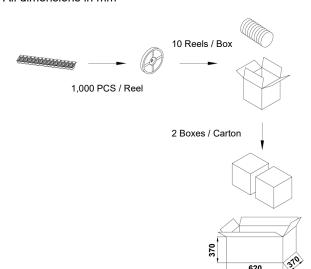
Miniature Fuses (Mini Fuse)

Temperature Derating Curve



Packaging Information

All dimensions in mm



Item	Reel	Вох	Carton	
Quantity (PCS)	1,000	10,000	20,000	
Gross Weig	ht (kg)	9.0×(1±10%)		

Miniature Fuses

(Mini Fuse)

SCT1032 Series, Time-Lag, Ceramic Tube



ATTENTION

Inspection

Cold Resistance Test

- a. Applied current shall be less than 10% of rated current, at ambient Temp. of (23±2) °C.
- b. (4-Wire) Resistance Measurement.

Usage

- a. Do not touch the fuse body or lead wire when power on, avoiding scald or electric shock.
- b. Air pressure is 80 kPa to 106 kPa. These values represent an altitude of +2000 m to -500 m, respectively.

Replacement

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

Storage

Please store the fuse in the environment 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.