SOCAY

RoHS

Time-Lag Glass Tube Fuse

STC-L Series

Descriptions

This product is suitable for various kinds of electronic devices' circuit over current protection. Widely used in industrial of Lighting, Power supply and Adapter applications, etc.

Product Characteristics

- Lead Pull Strength: 5N for 10±1 Seconds.
- Lead Thrust Strength: 2N for 10±1 Seconds.
- Solder Ability: Wave: 260℃,≤3s;
  Soldering Iron: 350±10℃,≤3s.
- Soldering Heat Resistance: Wave : 260℃,10s;
  Soldering Iron: 350℃,5s.

Material Details

Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse Element	Alloy
Lead Wire	Tin Plated Copper

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Electrical Characteristics

Part Number	Ampere Rating (A)	Voltage Rating Vac(V)	Breaking Capacity	I^2T Melting Integral($A^2.S$)
STC0100A-L	0.1	250V	35A@250V AC (0.1~1A); 100A@250V AC (1.25~3.5A); 200A@250V AC (4~10A).	0.005
STC0125A-L	0.125	250V		0.01
STC0160A-L	0.16	250V		0.02
STC0200A-L	0.2	250V		0.04
STC0250A-L	0.25	250V		0.06
STC0300A-L	0.3	250V		0.08
STC0315A-L	0.315	250V		0.10
STC0350A-L	0.35	250V		0.13
STC0400A-L	0.4	250V		0.19
STC0500A-L	0.5	250V		0.32
STC0630A-L	0.63	250V		0.54
STC0750A-L	0.75	250V		0.93
STC0800A-L	0.8	250V		1.16
STC1100A-L	1	250V		2.5
STC1125A-L	1.25	250V		4.2
STC1150A-L	1.5	250V		6.2
STC1160A-L	1.6	250V		11
STC1200A-L	2	250V		20
STC1250A-L	2.5	250V		39
STC1300A-L	3	250V		64
STC1315A-L	3.15	250V		69
STC1350A-L	3.5	250V		70
STC1400A-L	4	250V		83
STC1500A-L	5	250V		90
STC1600A-L	6	250V		102
STC1630A-L	6.3	250V		126
STC1700A-L	7	250V		129
STC1800A-L	8	250V		147
STC2100A-L	10	250V		221
STC2150A-L	15	250V		221

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Electrical Characteristics

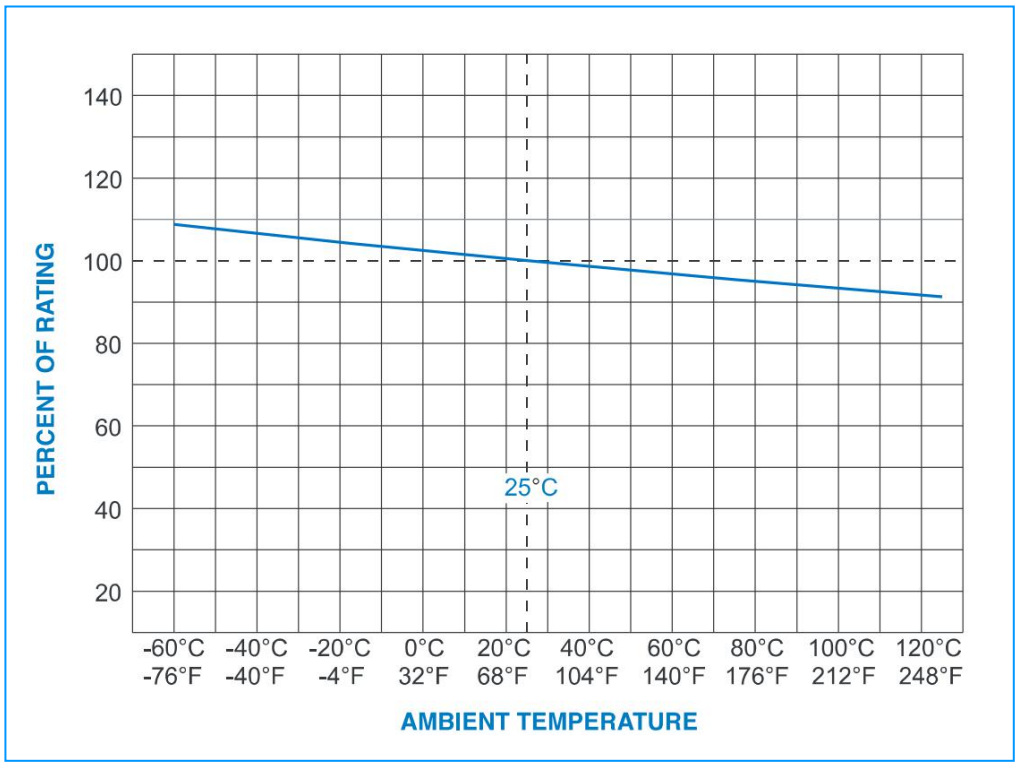
- Test Condition: All electrical test is to be conducted with the ambient air at a temperature of 25±5℃.
- Load Capacity: When the fuse loads through 100% of rated current, should blow within 4 hours.
- Interrupting Rating: Breaking Capacity: 35A@250V AC (0.1~1A); 100A@250V AC (1.25~3.5A); 200A@250V AC (4~10A).
- Rising Temperature Test:

  When the 100% times of Ampere Rating passes the fuse, after reaching thermal balance, the temperature on the fuse surface rising shall not be higher than 75℃. Note: Rising temperature = the Surface temperature - Ambient temperature.
- Operating Characteristics:

% of Ampere Rating(In)	Blowing Time
100% * In	4 hours Min
135% * In	1 hour Max
200% * In	120 secs Max

Environmental Characteristics

- Operating Temperature: -55℃～+125℃.
- Stock Condition: Humidity:Relative humidity ≤ 75% store 3 years in average.
- When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20~30℃, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Rerating Curve:



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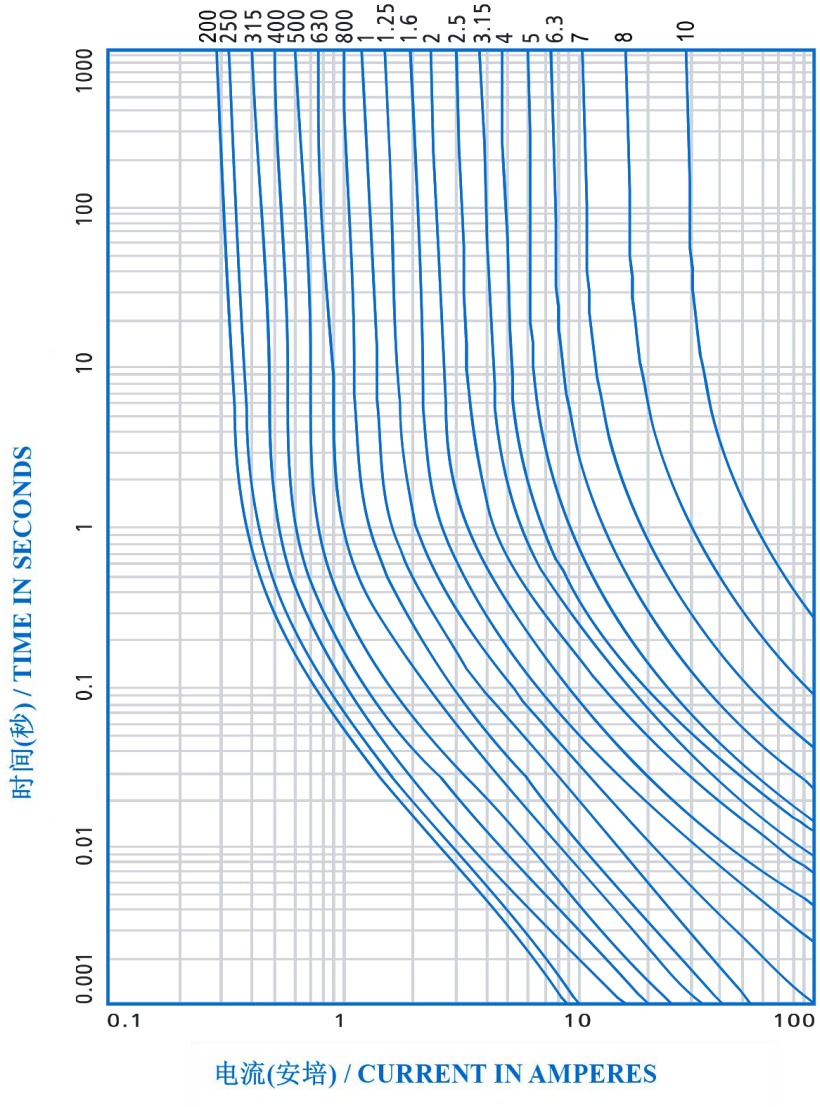
Average Time Current Curves



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Recommended Soldering Parameters

- Wave Parameters:

  Solder Pot Temperature: 260℃ Max;

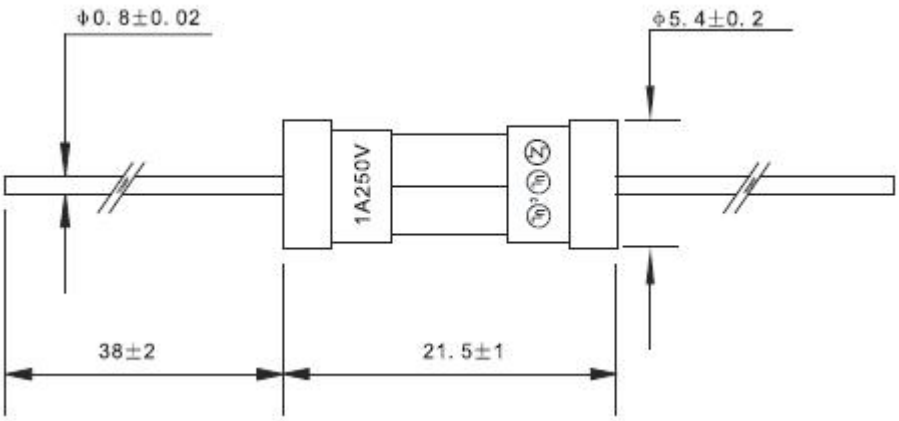
  Solder Dwell Time: 2~5s.

- Hand-Solder Parameters:

  Solder Iron Temperature: 350±5℃;

  Heating Time: 5s Max.

Dimensions and Structure (Unit: mm)



Packing Quantity

Series	Poly Bag	Inner Box	Outer Carton
STC-L Series	200 pcs	10 poly bags	4 inner boxes