

Time-Lag Glass Tube Fuse

STC-S 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°C, ≤3s;
Soldering Iron: 350±10°C, ≤3s.
- ◆ Soldering Heat Resistance: Wave : 260°C, 10s;
Soldering Iron: 350°C, 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 ² T Melting Integral(A ² .S)
STC0100A-S	0.1	250V	35A@250V AC (0.1~1A); 100A@250V AC (1.25~3.5A); 200A@250V AC (4~10A).	0.005
STC0125A-S	0.125	250V		0.01
STC0160A-S	0.16	250V		0.02
STC0200A-S	0.2	250V		0.04
STC0250A-S	0.25	250V		0.06
STC0300A-S	0.3	250V		0.08
STC0315A-S	0.315	250V		0.10
STC0350A-S	0.35	250V		0.13
STC0400A-S	0.4	250V		0.19
STC0500A-S	0.5	250V		0.32
STC0630A-S	0.63	250V		0.54
STC0750A-S	0.75	250V		0.93
STC0800A-S	0.8	250V		1.16
STC1100A-S	1	250V		2.5
STC1125A-S	1.25	250V		4.2
STC1150A-S	1.5	250V		6.2
STC1160A-S	1.6	250V		11
STC1200A-S	2	250V		20
STC1250A-S	2.5	250V		39
STC1300A-S	3	250V		64
STC1315A-S	3.15	250V		69
STC1350A-S	3.5	250V		70
STC1400A-S	4	250V		83
STC1500A-S	5	250V		90
STC1600A-S	6	250V		102
STC1630A-S	6.3	250V		126
STC1700A-S	7	250V		129
STC1800A-S	8	250V		147
STC2100A-S	10	250V		221
STC2150A-S	15	250V		--
STC2200A-S	20	250V		--

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Electrical Characteristics

- ◆ Test Condition: All electrical test is to be conducted with the ambient air at a temperature of $25\pm 5^{\circ}\text{C}$.
- ◆ 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:

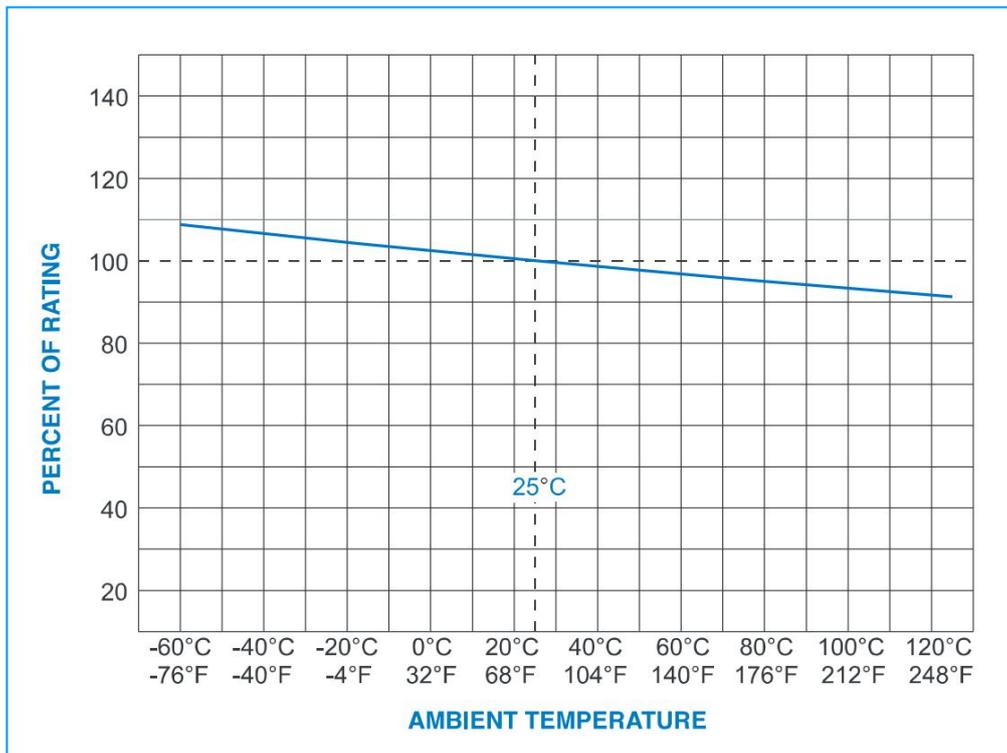
When the 100% times of Ampere Rating passes the fuse, after reaching thermal balance, the temperature on the fuse surface rising shall not be higher than 75°C . Note: Rising temperature = the Surface temperature - Ambient temperature.

- ◆ 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

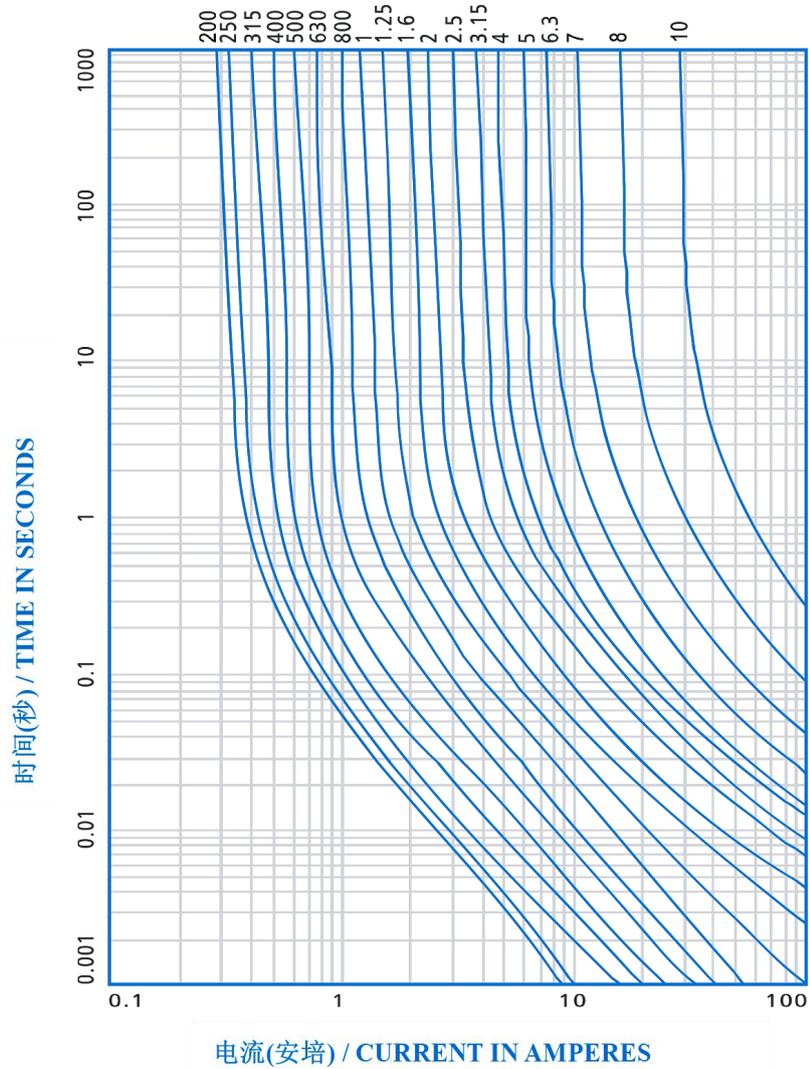
- ◆ Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
- ◆ Stock Condition: Humidity: Relative humidity $\leq 75\%$ store 3 years in average.
- ◆ When choosing the fuse's specification, if the operating environmental temperature beyond the scope from $20\sim 30^{\circ}\text{C}$, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Rerating Curve:



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Average Time Current Curves



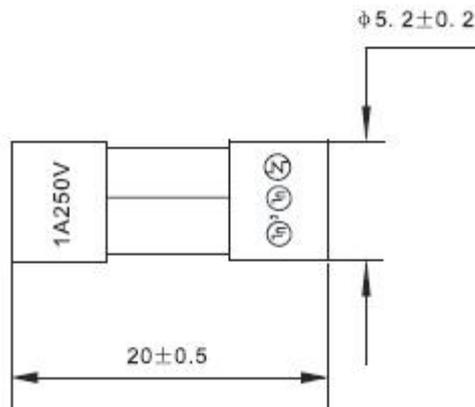
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Recommended Soldering Parameters

- ◆ Wave Parameters:
 - Solder Pot Temperature: 260°C Max;
 - Solder Dwell Time: 2~5s.
- ◆ Hand-Solder Parameters:
 - Solder Iron Temperature: 350±5°C;
 - Heating Time: 5s Max.

Dimensions and Structure (Unit: mm)



Packing Quantity

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