



2410 方头陶瓷 FUSE
(慢断内焊)

DOC.NO.:
ISS-SCT5A

INDIVIDUAL SPECIFICATION SHEET

Product Name: 2410方头陶瓷FUSE

Part Number: SCT5A

Revision: B



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Rev.	Effective Date	Changed Contents
A	2020-11-23	New Release
B	2021-1-20	变更包装数量

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PREPEARED BY

APPROVED BY

杨娟

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1. 适用范围 / Scope of Application

本产品适用于 LCD / PDP 电视. 液晶显示器. LCD / PDP 面板. LCD 背光逆变器. 便携式 DVD 播放器. 电源. 联网. PC 服务器. 冷却风扇系统. 存储系统. 电信系统. 无线基站. 白色家电. 游戏机. 办公自动化. 设备. 电池充电电路保护. 工业设备. 医疗器材. 汽车各类电子设备电路的过流保护作用.

This product is suitable for LCD / PDP TV. LCD display. LCD / PDP panel. LCD backlight inverter. Portable DVD player. Power supply. Networking. PC server. Cooling fan system. Storage system. Telecommunication system. Wireless base station. . Game machine. Office automation. Equipment. Battery charging circuit protection. Industrial equipment. Medical equipment. Over-current protection of various electronic equipment circuits.

2. 安规认证标准及编号 / Standards and Agency Approvals

2.1 执行标准：遵循 UL248-1;UL248-14。

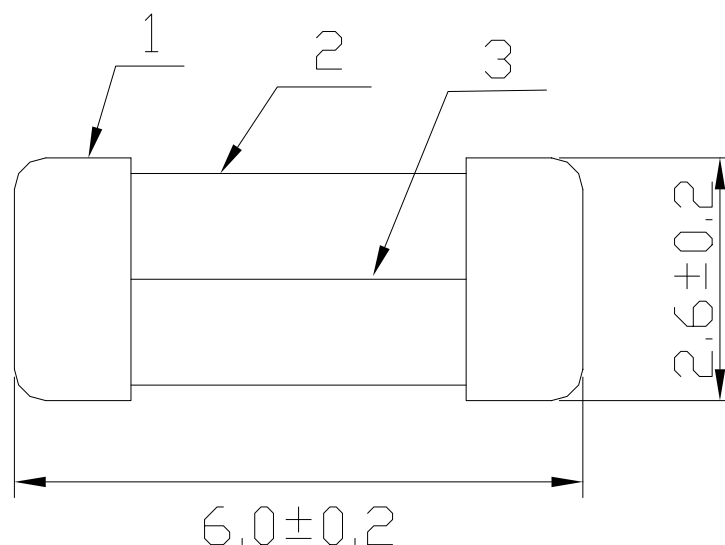
Standards: In accordance with UL248-1;UL248-14.

2.2 认证范围 Certification:

额定电压 Rated Voltage	安规标准 Agency	认证电流 Ampere Range	证书编号 Agency File Number
300V	UR-CUR	50mA ~ 10A	E467707

3. 结构及尺寸 / Dimensions and Structure

单位：毫米 / Unit: mm



4.材料明细 / Material Details


编号 NO.	零件名称 Part Name	材质 Material
1	熔丝 Element	合金银线 Silver alloy
2	管体 Body	陶瓷管 Body
3	铜帽 Cap	铜镀银/金 AU/Ag Plated Brass

5.产品标示 / Product Marking

保险丝本体上需有下列标示。

The fuses body shall have the following markings.

示例 Example:

	T	5A
1	2	3

1. 标识/ Logo


2. 电器特性符号/ Electrical Characteristic symbol

3. 额定电流/Rated Current: A 或 or Ma

注意 / Note: 对于标示的大小和位置没有规定。

Size and position of the markings shall not be provided

6.产品特性/Product Characteristic(Ref)

Rated current	Rated voltage	Maximun voltage drop (mv)	Breaking capacity	I ² T A ² s	
50mA	300V	5000	50A	0.00019	●
62mA		4400		0.00019	●
100mA		3500		0.00138	●
125mA		2500		0.00286	●
160mA		2200		0.0048	●
200mA		1800		0.0089	●
250mA		1400		0.0158	●
315mA		1300		0.0311	●
400mA		1000		0.0551	●
500mA		900		0.0824	●
630mA		800		0.1381	●
800mA		600		0.2654	●
1A		500		0.6029	●
1.25A		400		0.664	●
1.6A		300		1.06	●
2A		300		0.53	●
2.5A		300		1.029	●
3.15A		300		1.92	●
4A		300		3.152	●
5A		300		5.566	●
6.3A	300	9.17	●		
7A	300	12.3	●		
8A	220	20.23	●		
10A	220	26.46	●		
12A	63V/72V	220	500A	32.0	○
15A		220		53.0	○
20A		220		/	○
25A		220		/	○

● Approved ○ pending

7.外观及形状 / Appearances and Configuration

7.1 外观不应出现显著的污点、裂纹，标识应该容易辨识。

There shall not be any remarkable stain and crack on the appearances, markings shall be easily legible.

7.2 形状：方形陶瓷贴片保险丝。

Configuration: Square ceramic patch fuse

8.产品特性 / Product Characteristics

8.1 引脚拉力强度 / Lead Pull Strength

10 牛顿 10±1 秒 / 10N for 10±1 Seconds

8.2 引脚推力强度 / Lead Thrust Strength

2 牛顿 10±1 秒 / 2N for 10±1 Seconds

9.电气特性 / Electrical Characteristics

9.1 所有测试环境温度为 25±5℃。

All electrical test is to be conducted with the ambient air at a temperature of 25±5℃.

9.2 分断能力 / Interrupting Rating:

50 安培使用 300V 交流电源(50mA~10A)。

50A@ 300V AC

9.3 温度上升试验 / Rising Temperature Test:

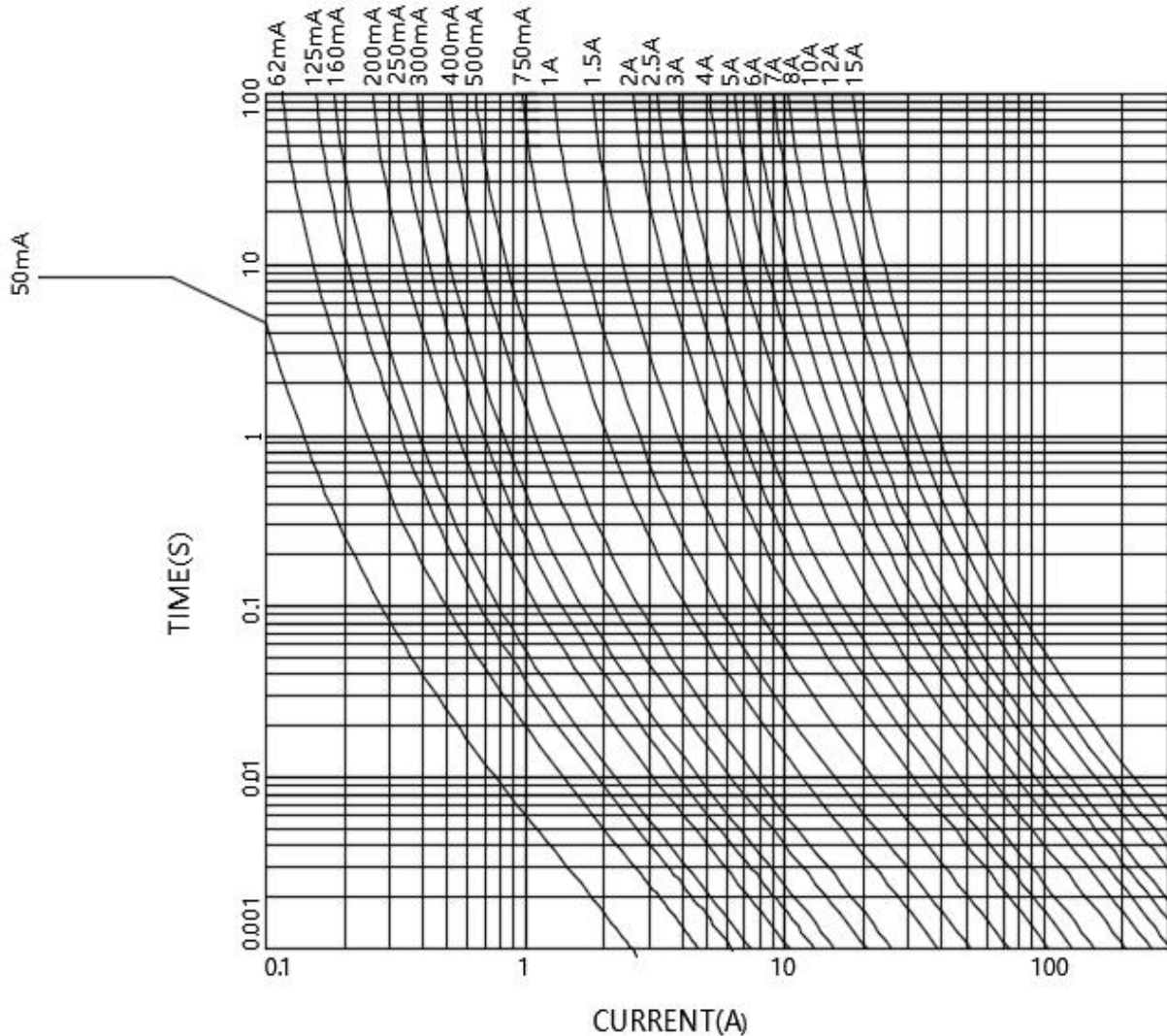
温度上升试验：通 1.0 倍额定电流，当温度稳定时（5 分钟测量 4 次，且每次测量值与平均值相差不超过 2℃）。测得熔断体任何部位的温升不得超过 75℃，周围环境温度为 25±5℃。

When the 100% times of rating electric current passes the fuse, After reaching thermal balance , the temperature on the fuse surface rising is not higher than 75℃.Rising temperature= The surface temperature-Ambient temperature

9.4 熔断时限 / Opening Time

额定电流的%% of Ampere Rating	熔断时间 Opening Time (Time lag)
100%	T>4hrs
200%	T<120s
300%	1s<T<3s
800%	10ms<T<100ms

9.5 平均时间电流曲线图 / Average Time Current Curves



10.环境特性 / Environmental Characteristic

10.1 使用温度范围 / Operating Temperature

-55℃~+125℃。

10.2 保存条件 Stock Condition

湿度：相对湿度 $\leq 75\%$ 平均可以存放3年。

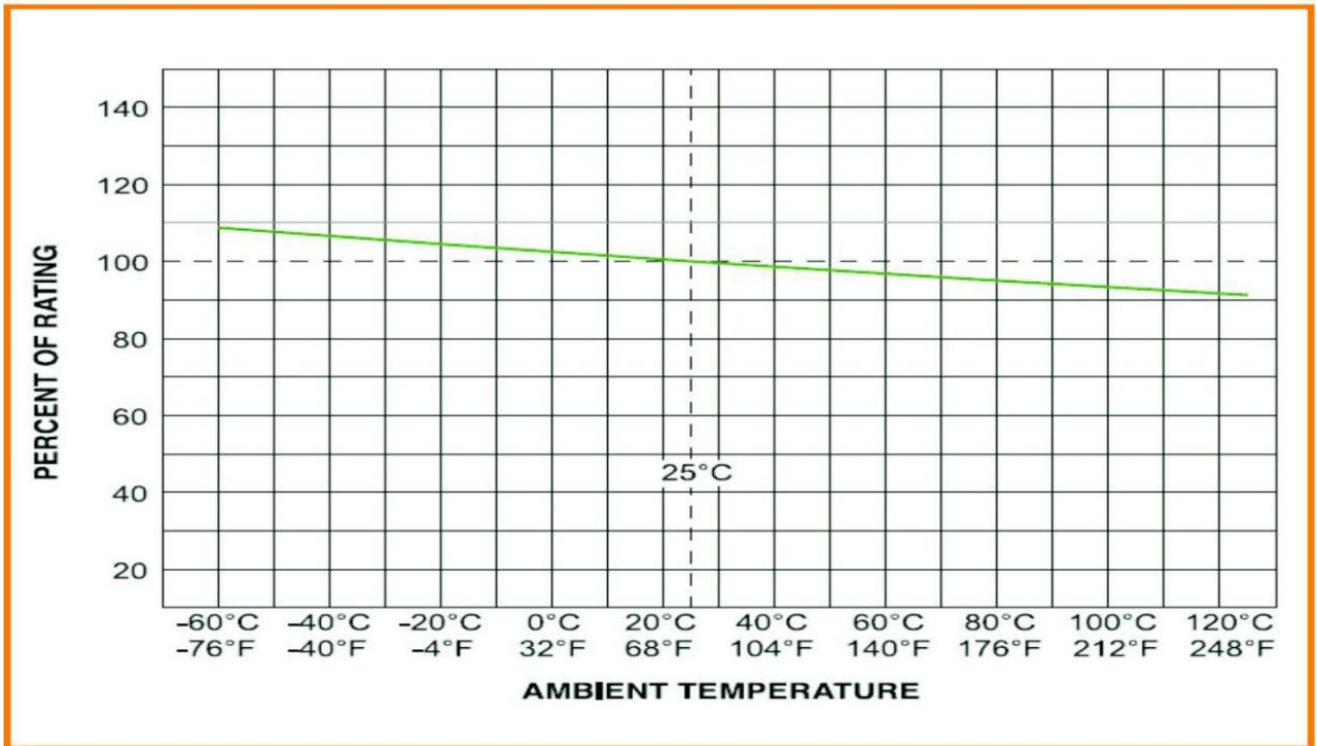
Humidity: Relative humidity $\leq 75\%$ store 3 years in average.

10.3 若操作环境温度超出 25 \pm 5℃范围，在选用保险丝规格时，需考虑操作环境温度对保险丝的影响，请参照如下：温度-电流曲线图。

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 Derating Curve:

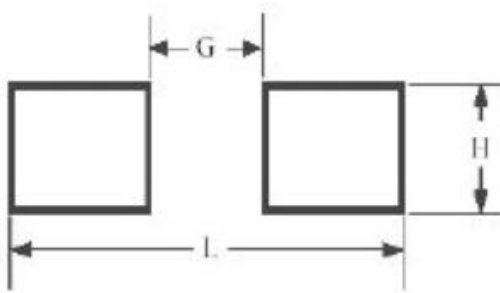
Temperature Derating Curve



11. 安装建议 / Installation Recommendations

11.1 建议按照如下示意图方式进行安装。

Propose installation way as following picture.

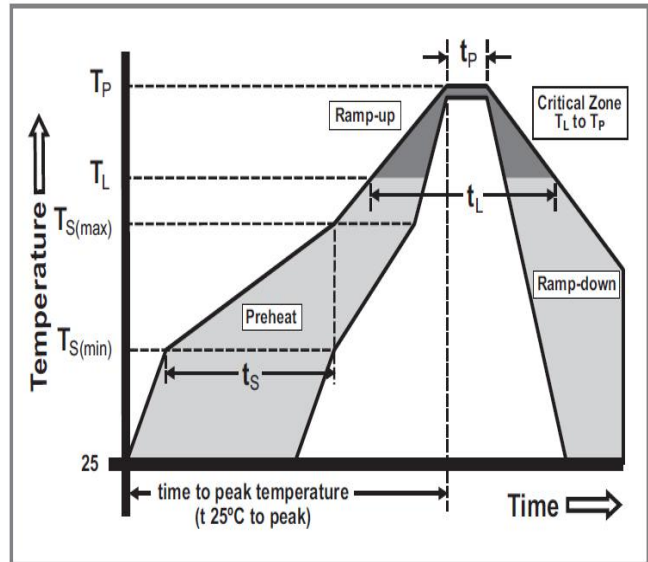


/	mm	inch
L	8.7	0.343
H	2.9	0.114
G	3.0	0.118

11.2 建议焊接参数 / Recommended Soldering Parameters

- A. 回流焊/Infrared Reflow 温度 Temperature 250°C ; 时间 Time 5sec Max;
 - B. 波峰焊/ Wave soldering : 温度 Temperature 250°C ; 时间 Time 10sec Max;
 - C. 烙铁焊/Hand Soldering: 温度 Temperature 300°C ; 时间 Time 2sec Max
- 烙铁避免接触铜帽 Soldering iron avoid touch Copper cap

Profile Features	Pb-Free assembly
Average Ramp-up Rate (T _{smax} to T _p)	3°C/sec Max.
Preheat Temperature Min T _{s(min)}	150°C
Temperature Max T _{s(max)}	200°C
Time(T _{smin} to T _{smax})	60-120 sec
Peak Temperature(T _p)	250°C
Time within 5 °C of actual Peak Temperature(T _p)	5 sec
Melting tin time(T _L)	20sec~40sec
Ramp-down Rate	6°C/sec Max
Time 25°C to peak Temperature	8minutes Max



回流焊接参考温度 Recommend Reflow profile

12. 包装 / Packaging

12.1 包装袋/盒印明下列标示: / The following items indicated on the label:

产品料号、额定(电压、电流)、分断类型及安规名称。

Catalog number, ratings (voltage, current), interrupting type and safety mark.

包装材料均符合 RoHS/REACH/HF 的环保要求，且包装材料不会和零件发生化学反应，造成不良。

The packing material conforms to ROHS/REACH/HF environmental protection request. And the packing materials will not have the chemical reaction with the components.

12.2 包装数量 / Packing Quantity

每 1500pcs 一卷/Every 1500 PCS for 1 roll

每盒 1 卷/Each box 1 volume

附件 I: 安规证书和 SGS 证书 / Appendix I: Safety approval certificates and SGS approval

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[FCC16202ABTP](#) [F0603G0R03FNTR](#) [7010.9962.63](#) [SEF 12A 65V \(G\)](#) [MST 250mA 250V](#) [TB60](#) [06 100.4](#) [TBF50](#) [TBF40](#)
[2010T315mA250V](#) [06 110.7](#) [12 100.1.5](#) [06 110.5](#) [1206FA-R250](#) [R06.100.6](#) [R12.100.15](#) [R06.000.0.375](#) [R06.000.6](#) [R06.100.0.25](#) [R12.000.8](#)
[R06.100.0.75](#) [R06.100.0.375](#) [R06.100.0.5](#) [R06.000.7](#) [R06.100.7](#) [S0603-S-2.0A](#) [F06F3.5](#) [F12F20](#) [TA3VT2](#) [F12F1](#) [F06F7](#) [F06T3.5](#)
[F06F0.375](#) [F06T8](#) [F12F30](#) [4T2A250V](#) [R12.100.7](#) [R12.100.30](#) [R06.000.0.25](#) [R12.100.6](#) [R12.000.0.25](#) [R12.000.6](#) [R12.000.10](#)