



产品规格书

文件版本:Version

A/2

文件编号:No

型号 Type : 2410 SA/B/CT

安规类型: Approve

UL248-14

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。

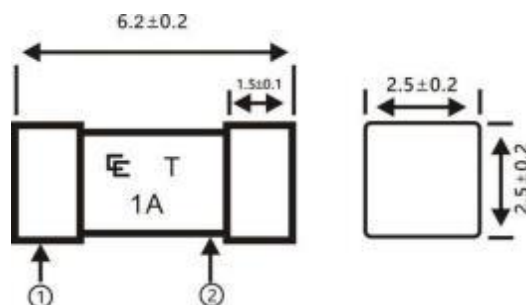
Standards : In accordance with UL248-1;UL248- 14.

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 |
|-----------------------|----------------|----------------------|----------------------------|
| 125V | UR | 50mA ~ 15A | E358589 |
| | C-UR | 50mA ~ 15A | |
| 250V | UR | 50mA ~ 10A | |
| | C-UR | 50mA ~ 10A | |
| 300V | UR | 50mA ~ 10A | |
| | C-UR | 50mA ~ 10A | |

3. 结构及尺寸 / Dimensions and Structure

单位: 毫米 / Unit: mm



4. 材料明细 / Material Details

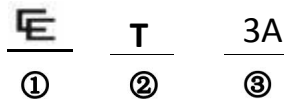
| 编号 NO. | 零件名称 Part Name | 材质 Material |
|-----------|-------------------|-------------------------|
| ① | 铜帽 Cap | 黄铜镀银 Ag Plated Brass |
| ② | 管体 Body | 陶瓷管 Body |

5. 产品标示 / Product Marking

保险丝两端铜帽上或本体上需有下列标示。

The fuses cap or fuse body shall have the following markings.

示例 Example:



①制造厂商标识/ JKS Logo:


②电器特性符号/ Electrical Characteristic symbol: F/T (Fast-Acting/Time-Lag)

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

| Rated current | Rated voltage | Maximun voltage drop(mv) | Breaking capacity | I ² T A ² s |  |
|---------------|---------------|--------------------------|-------------------|--------------------------------------|---|
| 50mA | | 5000 | | 0.01 | ● |
| 63mA | | 4400 | | 0.02 | ● |
| 100mA | | 3500 | | 0.04 | ● |
| 125mA | | 2500 | | 0.06 | ● |
| 160mA | | 2200 | | 0.08 | ● |



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| | | | | | |
|-------|-----------------|------|-------------|------|---|
| 200mA | | 1800 | | 0.09 | ● |
| 250mA | | 1400 | | 0.11 | ● |
| 315mA | | 1300 | | 0.14 | ● |
| 400mA | | 1000 | 100A@125VAC | 0.26 | ● |
| 500mA | | 900 | 50A@250VAC | 0.5 | ● |
| 630mA | | 800 | 50A@300VAC | 0.8 | ● |
| 800mA | 125V(SAT) | 600 | | 1.5 | ● |
| 1.0A | 250V(SBT) | 500 | | 2.3 | ● |
| 1.25A | 300V(SCT) | 400 | | 3.2 | ● |
| 1.6A | 125V(50mA~15A) | 300 | | 5.9 | ● |
| 2.0A | 250V(50mA ~10A) | 300 | | 7.8 | ● |
| 2.5A | 300V(50mA ~10A) | 300 | | 10 | ● |
| 3.15A | | 300 | | 23 | ● |
| 4.0A | | 300 | | 39 | ● |
| 5.0A | | 300 | | 58 | ● |
| 6.3A | | 300 | | 95 | ● |
| 8.0A | | 220 | | 150 | ● |
| 10.0A | | 220 | | 210 | ● |
| 12A | | 220 | | 300 | ● |
| 15A | | 220 | | 320 | ● |

● 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

8.3 可焊性 / Solder ability

波峰焊/Wave : 250°C, ≤3s;

烙铁焊/Soldering Iron: 350±10°C, ≤3s.



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8.4 耐焊接热 / Soldering Heat Resistance

波峰焊/Wave : 250°C, <10s;

烙铁焊/Soldering Iron: 350°C, <3s.

9. 电气特性 / Electrical Characteristics

9.1 实验条件: Test Condition

所有测试环境温度为 25±5°C。

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

9.2 分断能力 / Interrupting Rating:

分断能力 Breaking Capacity::

100 安培使用 125 伏交流电源(50mA~10A) 。 100A@ 125V AC(50mA~15A)

50 安培使用 250 伏交流电源(50mA~10A) 。 50 A@ 250V AC(50mA~10A)

50 安培使用 300 伏交流电源(50mA~10A) 。 50 A@ 250V AC(50mA~10A)

9.3 温度上升试验 / Rising Temperature Test:

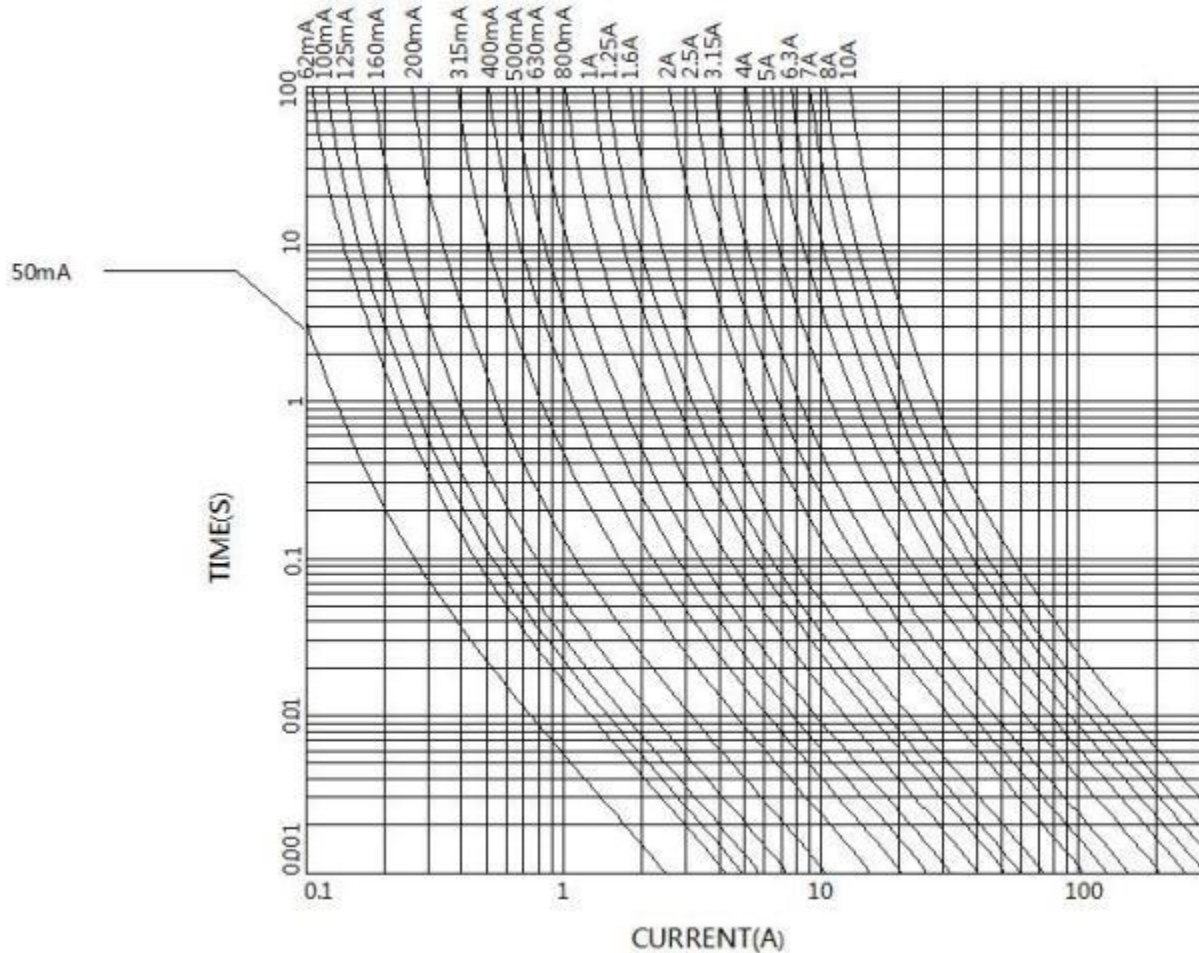
温度上升试验: 通 1.0 倍额定电流, 当温度稳定时 (5 分钟测量 4 次, 且每次测量值与平均值相差不超过 2°C)。测得熔断体任何部位的温升不得超过 75°C, 周围环境温度为 25±5°C。 When the 100% times of rating electric current passes the fuse, After reaching thermal balance , the temperature on the fuse surface rising is not higher than 75°C

Rising temperature= The surface temperature.Ambient temperature

9.4 熔断时限 / Opning Time

| 额定电流的% % of Ampere Rating | 熔断时间(UL) Opening Time(UL) |
|------------------------------|------------------------------|
| 200% | 1s<T<60s |
| 300% | 200ms<T<3s |
| 800% | 20ms<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℃。

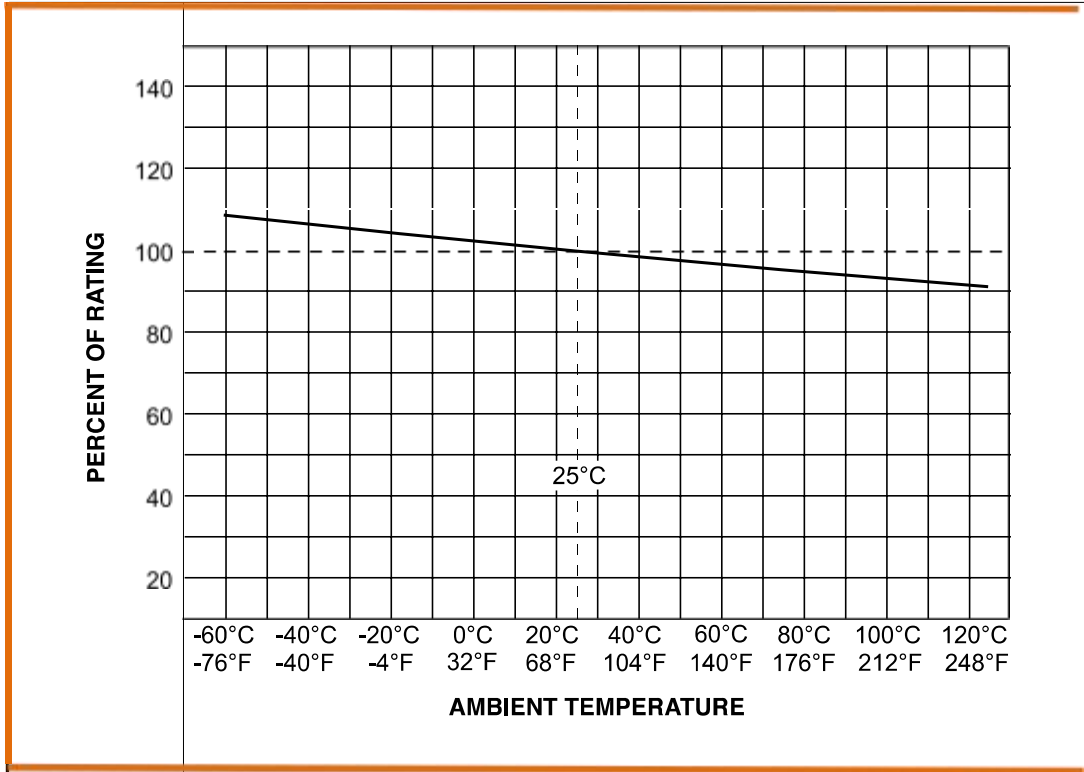
10.2 保存条件 Stock Condition

湿度: 相对湿度 ≤ 75% 平均可以存放 3 年。

Humidity: Relative humidity ≤ 75% store 3 years in average.

10.3 若操作环境温度超出 25±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 Rerating Curve:

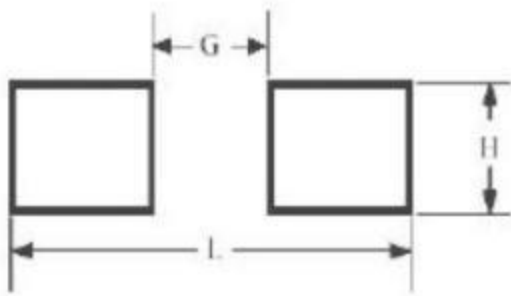


注：当额定电流为 5A,额定电压为 250V 时，对应的融化热能参数为 45。

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 |

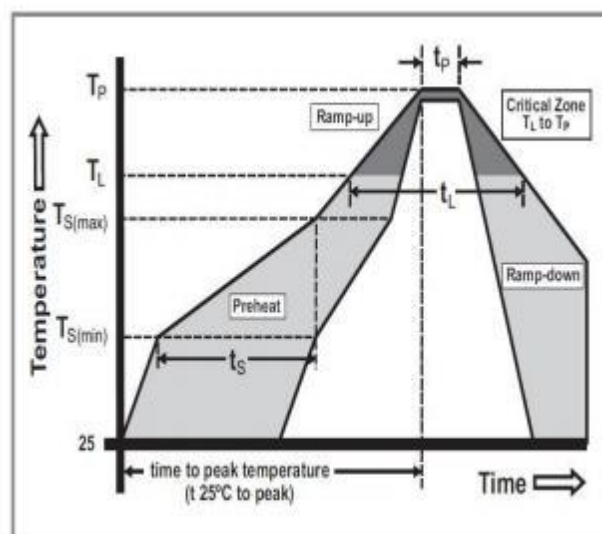
11.2 建议焊接参数 / Recommended Soldering Parameters

A. 波峰焊参数 / Wave Parameters:

锡炉温度 / Solder Pot Temperature: 250°C Max

焊接时间 / Solder Dwell Time:

| Reflow Condition | | Pb-Free assembly |
|------------------|-----------------------------|------------------|
| Preheating | -Temperature Min Ts(min) | 150°C |
| | -Temperature Max Ts(max) | 200°C |
| | -Time Max | 120 secs |
| Soldering | -Temperature (TL)(Liquidus) | 250°C |
| | -Time Max (TL) | 60 secs |
| | -Temperature (TP) | Max 250°C |
| | -Time Max (TP) | 10 secs |



B. 手工焊参数 / Hand-Solder Parameters:

烙铁温度 / Solder Iron Temperature: 350±5°C

焊接时间 / Heating Time: 3s Max

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.



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12.2 包装数量 / Packing Quantity

每 1000pcs 一卷/Every 1000 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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[R06.000.0.5](#) [R06.000.0.75](#) [R06.000.8](#) [R06.100.0.75](#) [R06.100.8](#) [R06.100.0.375](#) [R06.100.0.5](#) [R06.000.7](#) [R06.100.7](#) [S0603-S-2.0A](#) [F06F3.5](#)
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