

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 60127/GB9364/UL248-14。

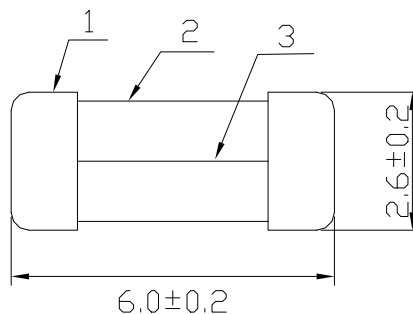
Standards: In accordance with 60127/GB9364/UL248-14.

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 |
|-----------------------|----------------|----------------------|--|
| 250V | UR-CUR | 50mA ~ 10A | E358589 |
| | VDE | 500mA/1A/2A/3.15A/5A | 40049351 |
| | CQC | 500mA/1A/2A/3.15A/5A | CQC19012215943 |
| | KC | 500mA/1A/2A/3.15A/5A | SU05044-19001A SU05044-19002A SU05044-19003A |

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 | 铜镀银 Ag Plated Brass |
| 2 | 管体 Body | 陶瓷管 Body |
| 3 | 熔丝 Element | 合金 Alloy |

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:





| | | |
|---|---|----|
|  | T | 1A |
| 1 | 2 | 3 |

1. 制造厂商标识/ Chevron 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

| Rated current | Rated voltage | Maximun voltage drop (mv) | Breaking capacity | I ² T A ² s |  |  |  |  |
|---------------|---------------|---------------------------|-------------------|-----------------------------------|--|---|---|---|
| 50mA | 250V | 5000 | 50A | 0.01 | ● | ○ | ○ | ○ |
| 63mA | | 4400 | | 0.01 | ● | ○ | ○ | ○ |
| 100mA | | 3500 | | 0.03 | ● | ○ | ○ | ○ |
| 125mA | | 2500 | | 0.05 | ● | ○ | ○ | ○ |
| 160mA | | 2200 | | 0.08 | ● | ○ | ○ | ○ |
| 200mA | | 1800 | | 0.12 | ● | ○ | ○ | ○ |
| 250mA | | 1400 | | 0.21 | ● | ○ | ○ | ○ |
| 315mA | | 1300 | | 0.36 | ● | ○ | ○ | ○ |
| 400mA | | 1000 | | 0.45 | ● | ○ | ○ | ○ |
| 500mA | | 900 | | 0.58 | ● | ● | ● | ● |
| 630mA | | 800 | | 1.0 | ● | ○ | ○ | ○ |
| 800mA | | 600 | | 2.5 | ● | ○ | ○ | ○ |
| 1.0A | | 500 | | 3.25 | ● | ● | ● | ● |
| 1.25A | | 400 | | 3.6 | ● | ○ | ○ | ○ |
| 1.6A | | 300 | | 9.22 | ● | ○ | ○ | ○ |
| 2.0A | | 300 | | 7.56 | ● | ● | ● | ● |
| 2.5A | | 300 | | 12.8 | ● | ○ | ○ | ○ |
| 3.0A | | 300 | | 23.2 | ● | ○ | ○ | ○ |
| 3.15A | | 300 | | 25.3 | ● | ● | ● | ● |
| 3.5A | | 300 | | 30.0 | ● | ○ | ○ | ○ |
| 4.0A | | 300 | | 42.8 | ● | ○ | ○ | ○ |
| 5.0A | | 300 | | 72.9 | ● | ● | ● | ● |
| 6.3A | | 300 | | 110.0 | ● | ○ | ○ | ○ |
| 7A | | 300 | | 120.1 | ● | ○ | ○ | ○ |
| 8.0A | 220 | 131.1 | ● | ○ | ○ | ○ | | |
| 10.0A | 220 | 135.2 | ● | ○ | ○ | ○ | | |
| 12A | 150 | 219.4 | ○ | ○ | ○ | ○ | | |
| 15A | 120 | 360 | ○ | ○ | ○ | ○ | | |
| 20A | 63V/72V | 100 | 500A | 500 | ○ | ○ | ○ | ○ |
| 25A | | 70 | | / | ○ | ○ | ○ | ○ |
| 30A | | 60 | | / | ○ | ○ | ○ | ○ |

●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 实验条件: Test Condition

所有测试环境温度温度为 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:

分断能力 Breaking Capacity::

50A 使用 250 伏交流电源(50mA~10A);200A@63V/72V(12A~20A)。

50 A@ 250V AC(50mA~10A); 200A@63V/72V(12A~20A)

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

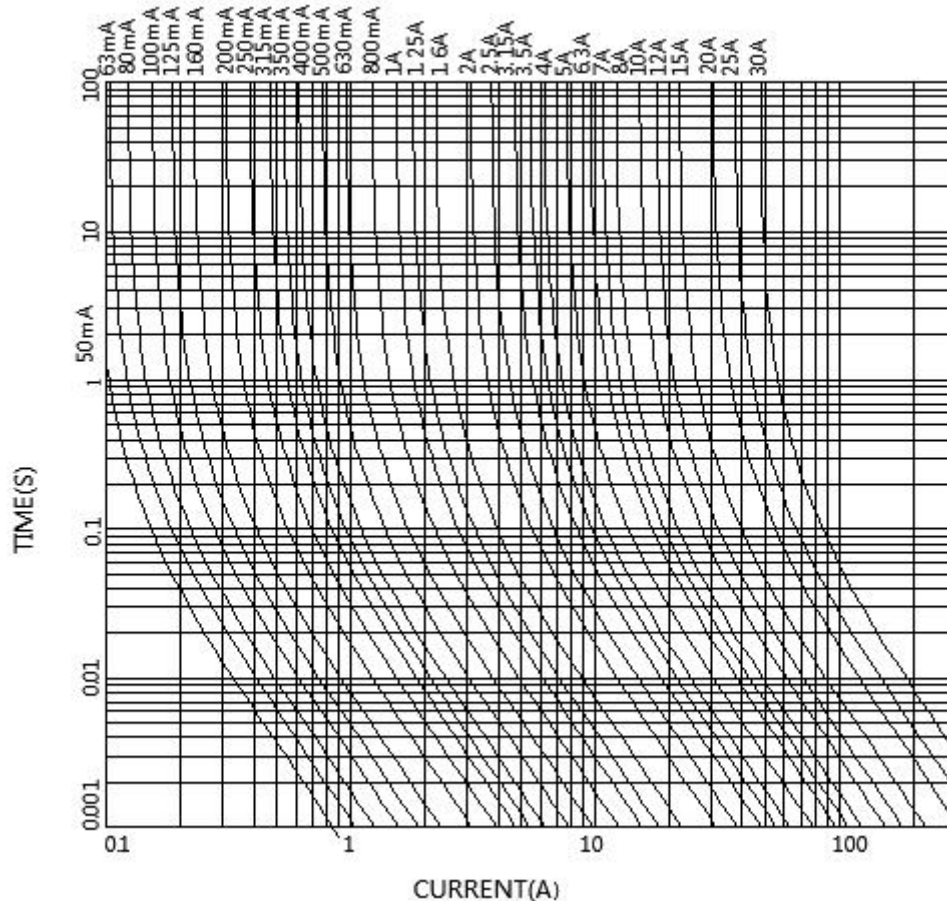
为 25±5℃。When the 100% times of rating electric current passes the fuse, After reaching thermal balance , the temperature on the fuse surface rising is not higher than 75℃

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% | 200ms<T<3s |
| 800% | 2ms<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

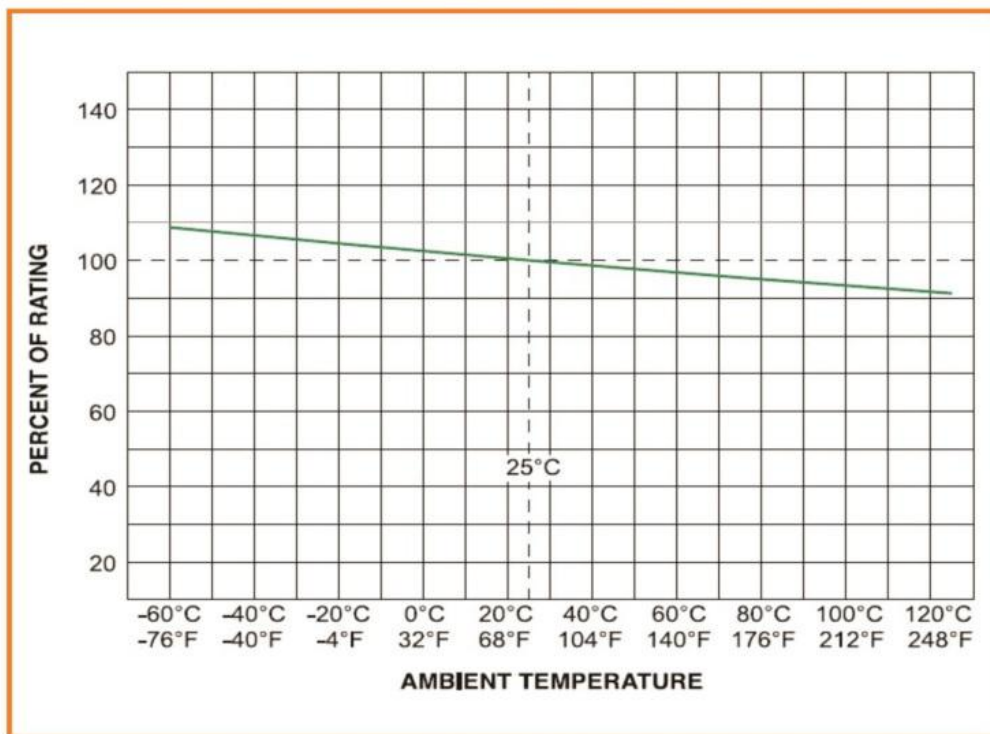
湿度: 相对湿度 ≤ 75%平均可以存放 3 年。

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°C, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Rerating Curve:

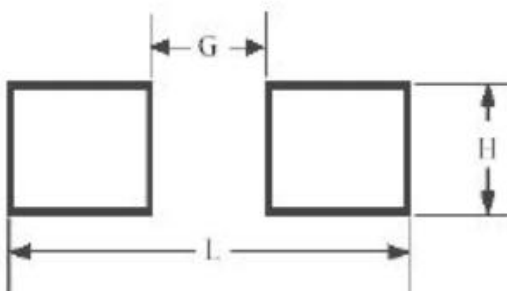
Temperature Rerating Curve



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

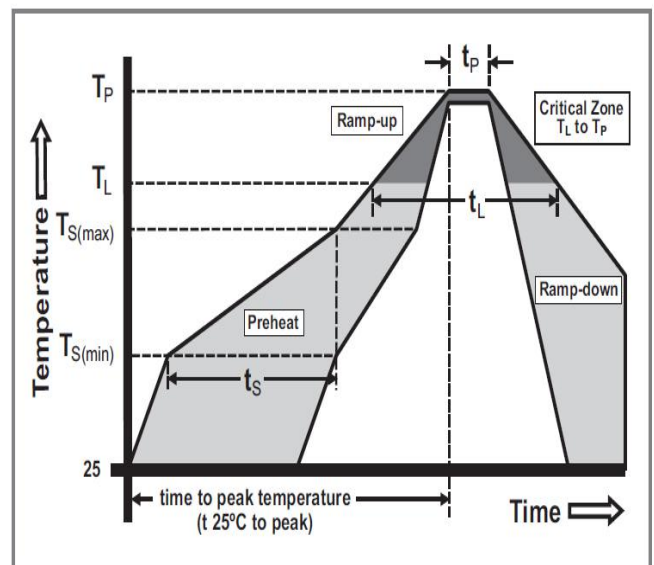
A.回流焊/Infrared Reflow 温度 Temperature 250°C ; 时间 Time 5sec Max;

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

