

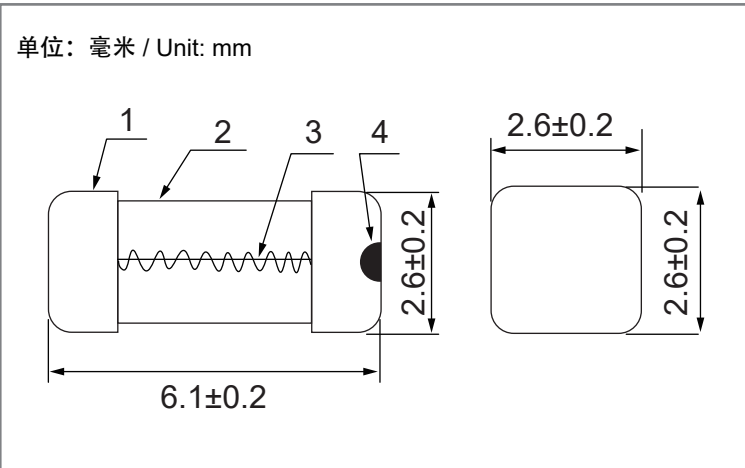


www.unsemi.com.tw

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.

结构及尺寸 / Dimensions and Structure



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 Silver Plated Brass
2	管体 Body	陶瓷管 Body
3	熔丝 Element	合金银线+纤维线 Silver alloy+Fiber
4	焊锡 solder	高温焊锡 High temperature tin

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:		
UN	T	2A
1	2	3

- 1.制造厂商标识/ UN 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

产品特性/Product Characteristic

Part Number	Rated current	Rated voltage	Typical Cold. Resistance (mOhms)	Breaking capacity	Typical Melting I ² t (A ² Sec)	Marking
UN2410-0500TS	500mA	250VAC	2700-3610	50A@250V	0.557	UN T 500mA
UN2410-0630TS	630mA	250VAC	158.2-218.0	50A@250V	1.44	UN T 630mA
UN2410-0750TS	750mA	250VAC	121.5-172.1	50A@250V	2.16	UN T 750mA
UN2410-0800TS	800mA	250VAC	121.5-172.1	50A@250V	2.16	UN T 800mA
UN2410-1100TS	1.00A	250VAC	85.0-121.0	50A@250V	2.30	UN T 1A
UN2410-1125TS	1.25A	250VAC	67.7-90.2	50A@250V	5.60	UN T 1.25A
UN2410-1150TS	1.50A	250VAC	57.4-77.6	50A@250V	3.87	UN T 1.5A
UN2410-1160TS	1.60A	250VAC	42.3-56.9	50A@250V	4.84	UN T 1.6A
UN2410-1200TS	2.00A	250VAC	32.3-42.2	50A@250V	7.20	UN T 2A
UN2410-1250TS	2.50A	250VAC	24.1-32.0	50A@250V	14.4	UN T 2.5A
UN2410-1300TS	3.00A	250VAC	20.0-24.5	50A@250V	25.0	UN T 3A
UN2410-1315TS	3.15A	250VAC	18.1-23.8	50A@250V	27.5	UN T 3.15A
UN2410-1350TS	3.50A	250VAC	19.4-22.7	50A@250V	30.9	UN T 3.5A
UN2410-1400TS	4.00A	250VAC	14.5-20.5	50A@250V	34.4	UN T 4A
UN2410-1500TS	5.00A	250VAC	10.2-13.1	50A@250V	64.0	UN T 5A
UN2410-1630TS	6.30A	250VAC	7.6-10.1	50A@250V	81.0	UN T 6.3A
UN2410-1700TS	7.00A	250VAC	6.7-7.9	50A@250V	110.0	UN T 7A
UN2410-1800TS	8.00A	250VAC	5.4-6.3	50A@250V	133.1	UN T 8A
UN2410-2100TS	10.00A	250VAC	4.1-5.1	50A@250V	158.4	UN T 10A
UN2410-2150TS	15.00A	250VAC	2.7	50A@250V	247.5	UN T 15A

外观、形状及产品特性/Apearances,Configuration and Product Characteristics

1. 外观不应出现显着的污点、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.

2. 形状：方形陶瓷贴片保险丝。

Configuration: Square ceramic patch fuse

3. 产品特性

3.1. 引脚拉力强度 / Lead Pull Strength

3.2. 10牛顿 10±1 秒 / 10N for 10±1 Seconds:

电气特性 / Electrical Characteristics

1. 实验条件：Test Condition

所有测试环境温度均为25±5℃

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

2. 分断能力 / Interrupting Rating:

50A使用250伏交流电源(50mA~10A)。

50A@ 250V AC(50mA~10A);

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 135℃

Rising temperature=The surface temperature-Ambient temperature

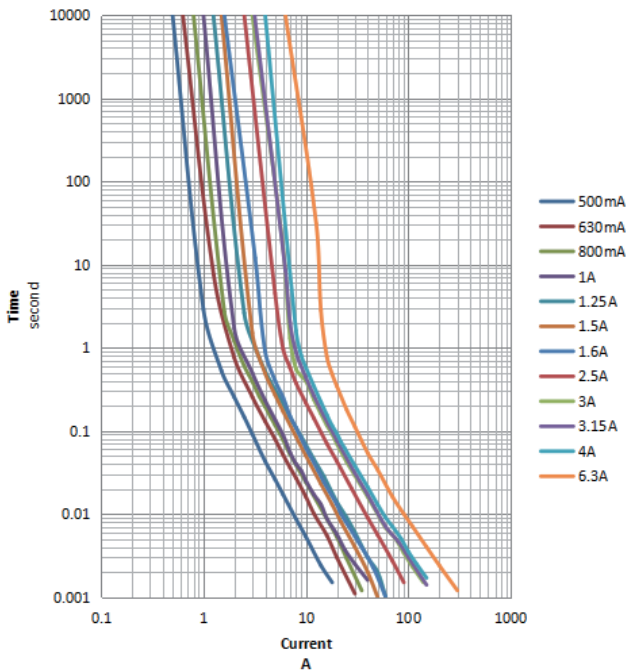
4. 熔断时限 / Opening Time

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%	10ms<T<100ms

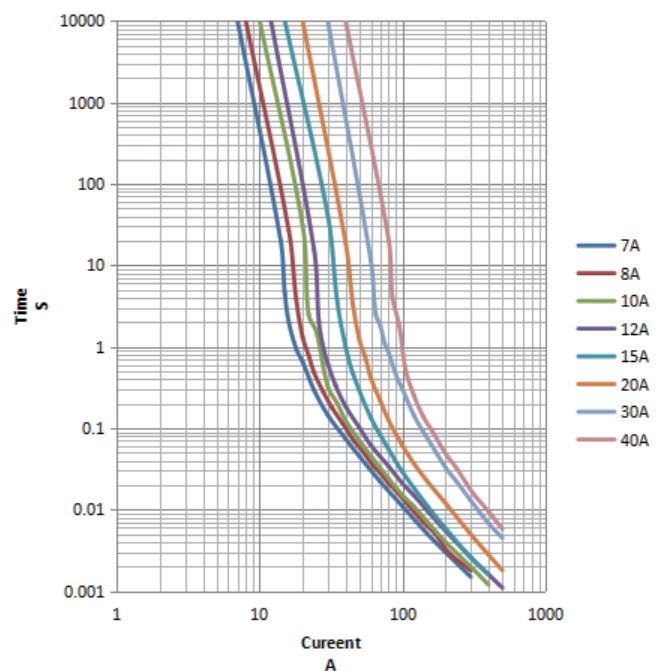
电气特性 / Electrical Characteristics

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

2410 Series I-T Curve 500mA-6.3A



2410 Series I-T Curve 7A-40A



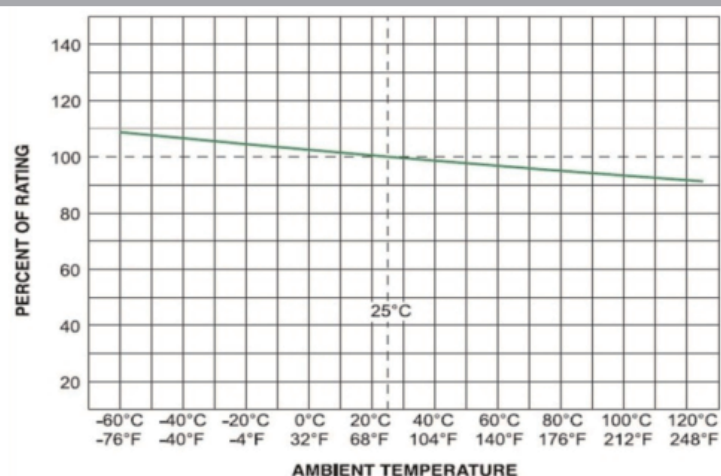
环境特性 / Environmental Characteristic

1. 使用温度范围 / Operating Temperature : $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ 。
2. 保存条件 Stock Condition: 温度在 $10^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ，相对湿度 $\leq 75\%$ 平均可以存放2年。
Can be stored for 2 years under tight seal condition at temperature of $10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, relative humidity $\leq 75\%$
3. 若操作环境温度超出 $25 \pm 5^{\circ}\text{C}$ 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 $20 \sim 30^{\circ}\text{C}$, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Rerating Curve:

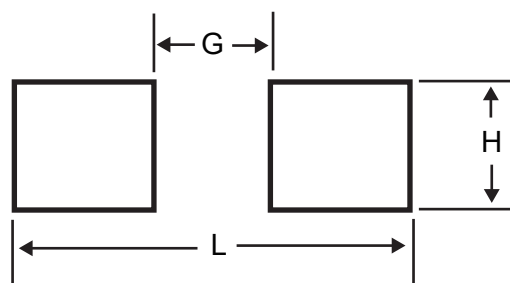
环境特性 / Environmental Characteristic

Temperature Derating Curve



安装建议 / Installation Recommendations

1. 建议按照如下示意图方式进行安装。Propose installation way as following picture.

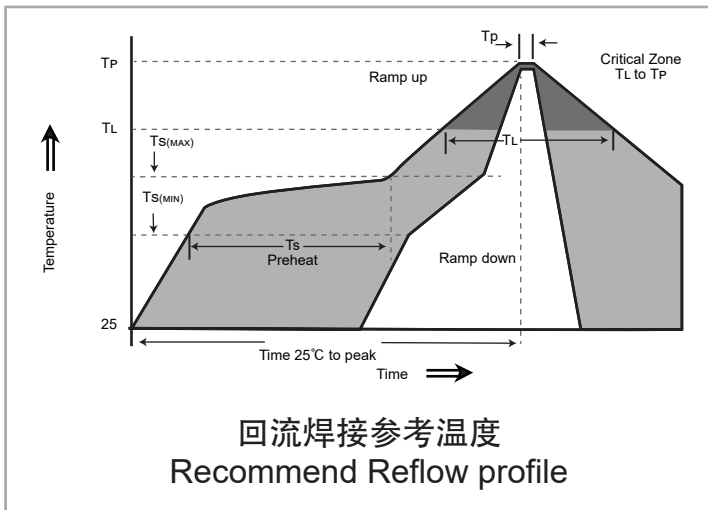


/	mm	inch
L	8.7	0.343
H	2.9	0.114
G	3.0	0.118

2. 建议焊接参数 / Recommended Soldering Parameters.

- A. 回流焊/Infrared Reflow : 温度Temperature 260°C ; 时间Time 10sec Max;
 - B. 波峰焊/ Wave Soldering : 温度Temperature 260°C ; 时间Time 10sec Max;
 - C. 烙铁焊/Hand Soldering : 温度Temperature 350°C ; 时间Time 3sec Max;
- 烙铁避免接触铜帽Soldering iron avoid touch Copper cap

安装建议 / Installation Recommendations



Profile Features		Pb-Free assembly
Preheat	-Temperature Min (Ts(min))	150°C
	-Temperature Max (Ts(max))	200°C
	- Time (min to max) (Ts)	60 - 120 Seconds
Average Ramp-up Rate (Tsmax to TP)		3°C/second max
Peak Temperature(TP)		250°C
Time within 5°C of actual peak Temperature (TP)		5 Seconds
Melting tin time (TL)		20 - 40 Seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature		8 minutes Max

包装 / Packaging

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

1.1 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 SBFety mark.

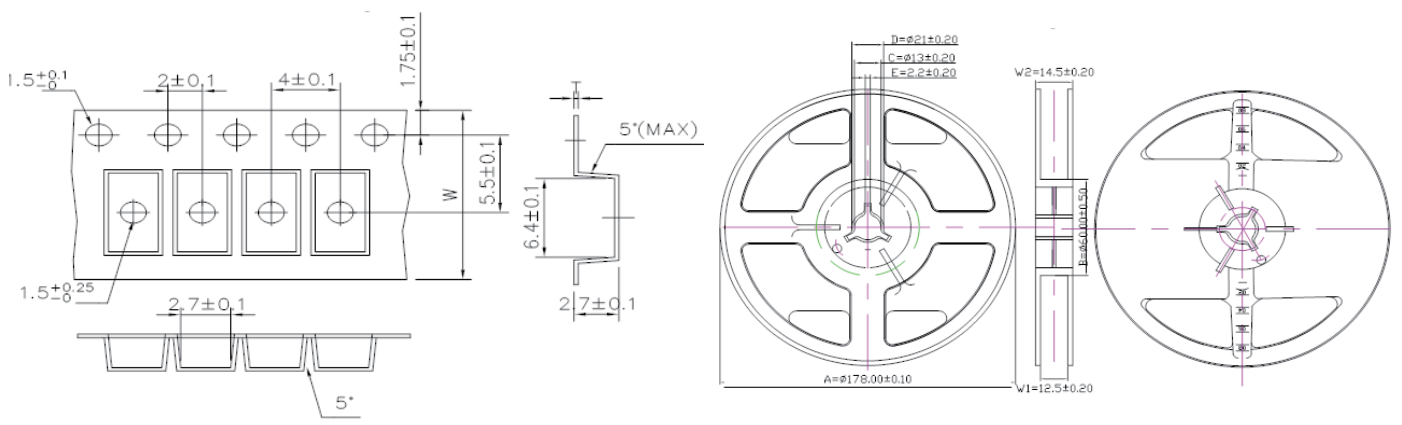
1.2 包装材料均符合ROHS/REACH/HF的环保要求, 且包装材料不会和零件发生化学反应, 造成不良。

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

2. 包装数量 / Packing Quantity

2.1 每1500pcs一卷/Every 1500 PCS for 1 roll

2.2 每盒1卷/Each box 1 volume



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