



保电通 (东莞) 电子科技有限公司
PROTECTOM (DONGGUAN) ELECTRONIC TECHNOLOGY CO.,LTD

EM8T 250V 系列 慢断型 塑封保险丝规格书

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适用范围 / Scope of Application

本产品适用于各类电子设备电路的过流保护作用, 广泛应用于电池充电、消费电子、电源供应、工业控制器等领域。

This product is suitable for various kinds of electronic devices' circuit over current protection. Widely used in industrial of Battery Charges, Consumer Electronics, Power supplies, Industrial Controllers, etc.

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

■ 执行标准: 遵循IEC60127-1, IEC60127-3 标准规格单4, GB9364.1-1997, GB9364.3-1997。

Standards : In accordance with IEC60127-1, IEC60127-3 Standard sheet4, GB9364.1-1997,GB9364.3-1997.

■ 目录编号 Catalogue No. :

目录编号 Catalog No.	额定电流 Ampere Rating	最大电压降 Max Voltage Drop(mv)	额定电压 Voltage Rating	熔化热能 I ² TMelting Integral(A ² .S)
EM8T00050R/B	50mA	1600	250V	0.015
EM8T00063R/B	63mA	1600	250V	0.016
EM8T00080R/B	80mA	1500	250V	0.017
EM8T00100R/B	100mA	1500	250V	0.02
EM8T00125R/B	125mA	760	250V	0.10
EM8T00160R/B	160mA	500	250V	0.15
EM8T00200R/B	200mA	260	250V	0.21
EM8T00250R/B	250mA	240	250V	0.48
EM8T00315R/B	315mA	220	250V	0.78
EM8T00400R/B	400mA	200	250V	1.22
EM8T00500R/B	500mA	190	250V	2.11
EM8T00630R/B	630mA	180	250V	2.88
EM8T00800R/B	800mA	160	250V	3.92
EM8T01000R/B	1A	5.77	250V	5.77
EM8T01250R/B	1.25A	130	250V	8.34
EM8T01600R/B	1.6A	120	250V	13.60
EM8T02000R/B	2A	100	250V	26
EM8T02500R/B	2.5A	100	250V	42
EM8T03000R/B	3A	100	250V	45
EM8T03150R/B	3.15A	100	250V	90
EM8T03500R/B	3.5A	100	250V	100
EM8T04000R/B	4A	100	250V	120
EM8T05000R/B	5A	100	250V	170
EM8T06300R/B	6.3A	100	250V	290
EM8T08000R/B	8A	100	250V	320
EM8T10000R/B	10A	95	250V	450
EM8T12000R/B	12A	95	250V	460
EM8T15000R/B	15A	85	250V	480
EM8T16000R/B	16A	85	250V	515
EM8T20000R/B	20A	85	250V	960

注: R代表棕色外壳, B代表黑色外壳, 无其他性能差异。

产品标示 / Product Marking

保险丝上需有下列标示

The fuses shall have the following markings:

示例 Example:

- ①. 制造厂商标识 / Trade Mark:
- ②. 系列型号名称 / Series Type Name: EM8
- ③. 电器特性符号 / Electrical Characteristic symbol: T (慢断型保险丝符号 / symbol for Time-Lag)
- ④. 额定电流 / Rated Current (A): A 或 or mA
- ⑤. 额定电压 / Rated Voltage (V): 250V
- ⑥. 认证符号 / Approval Marks

①	②	③	④	⑤
	EM8	T	1A	250V

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.

关于产品标示认证符号是根据电流是否有认证标示 / Regarding product marking for certification symbol based on whether current value have certification symbol or not

关于特别大 (小) 电流有特定标准 / There are particular about special large (small) current standards

外观及形状 / Appearances and Configuration

- 外观不应出现显著的污点、铁锈或裂纹，标识应该容易辨识。

There shall not be any remarkable stain, rust or crack on the appearances, Markings shall be easily legible.

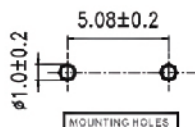
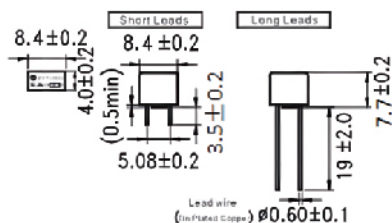
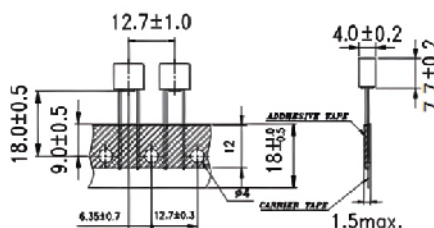
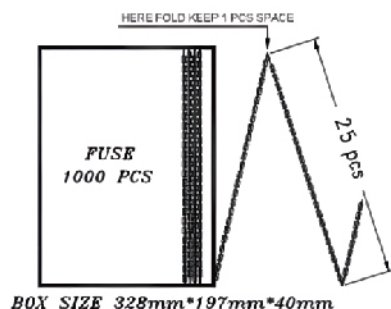
- 形状：带直线引脚的超小型保险丝。

Configuration: Radial leaded Sub-Miniature Fuse.

- 颜色：黑色或者棕色。

Color: Black or brown.

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	外壳 Cap	黑色或棕色热可塑性聚酰胺 (UL94-V0) Black or Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0
②	内芯 Base	黑色或棕色热可塑性聚酰胺 (UL94-V0) Black or Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0
③	熔丝 Fuse element	合金 Alloy
④	引线 Lead wire	镀锡铜线 Copper, Tin-plated

产品特性 / Product Characteristics

■ 引脚拉力强度 / Lead Pull Strength
 5 牛顿 10±1 秒 / 5N for 10±1 Seconds

■ 可焊性 / Solder ability
 波峰焊/Wave : 260℃, ≤3s;
 烙铁焊/Soldering Iron: 350±10℃, ≤1s.

■ 引脚推力强度 / Lead Thrust Strength
 2 牛顿10±1 秒 / 2N for 10±1 Seconds

■ 耐焊接热 / Soldering Heat Resistance
 波峰焊/Wave : 260℃, 10s;
 烙铁焊/Soldering Iron: 350℃, 3s.

电气特性 / Electrical Characteristics

■ 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℃.

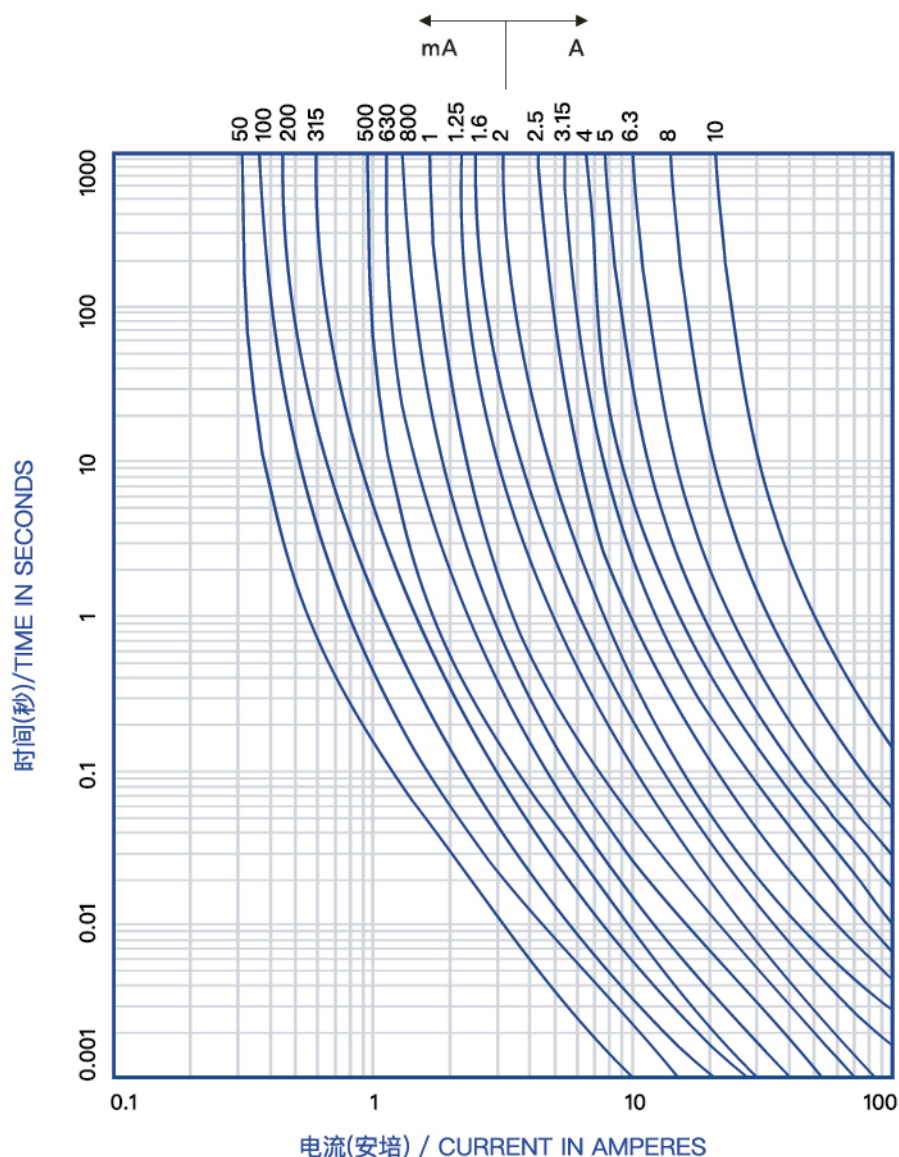
■ 分断能力 Interrupting Rating:
 保险丝承受分断能力: 在250 伏交流电源下, 35A 或10 倍的额定电流当中较大的。
 分断能力测试后保险丝的绝缘阻抗值大于0.1MΩ。
 Breaking Capacity: 35A or10In whichever is greater at 250V AC.
 The insulation resistance value of fuse is greater than 0.1MΩ after breaking capacity testing.

■ 温度上升试验 Rising Temperature Test:
 通1.5 倍额定电流15 分钟, 然后每隔15 分钟增加0.1 倍额定电流。测得熔断体断开时任何部位的温升不得超过135℃, 周围环境温度为25±5℃。
 Under the ambient temperature of 25±5℃, through 1.5 times the rated current for 15 minutes, then every 15 minutes, add an increase of 0.1 times the rated current. When operates, the temperature rise in any part of fuse should not exceed 135℃.

熔断时限 / Operating Characteristics

额定电流的% % of Ampere Rating(In)	熔断时间 Blowing Time
150%* In	大于 60 分钟 (60 min Minimum)
210%* In	小于 2 分钟 (2 min Max)
275%* In	400 毫秒至 10 秒 (400 ms~10 s)
400%* In	150 毫秒至 3 秒 (150 ms~3 s)
1000%* In	20 毫秒至 150 毫秒 (20 ms~150 ms)

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



环境特性 / Environmental Characteristic

■ 使用温度范围 Operating Temperature

-55°C~+125°C。

■ 保存条件 Stock Condition

湿度：相对湿度≤75%平均可以存放3年。

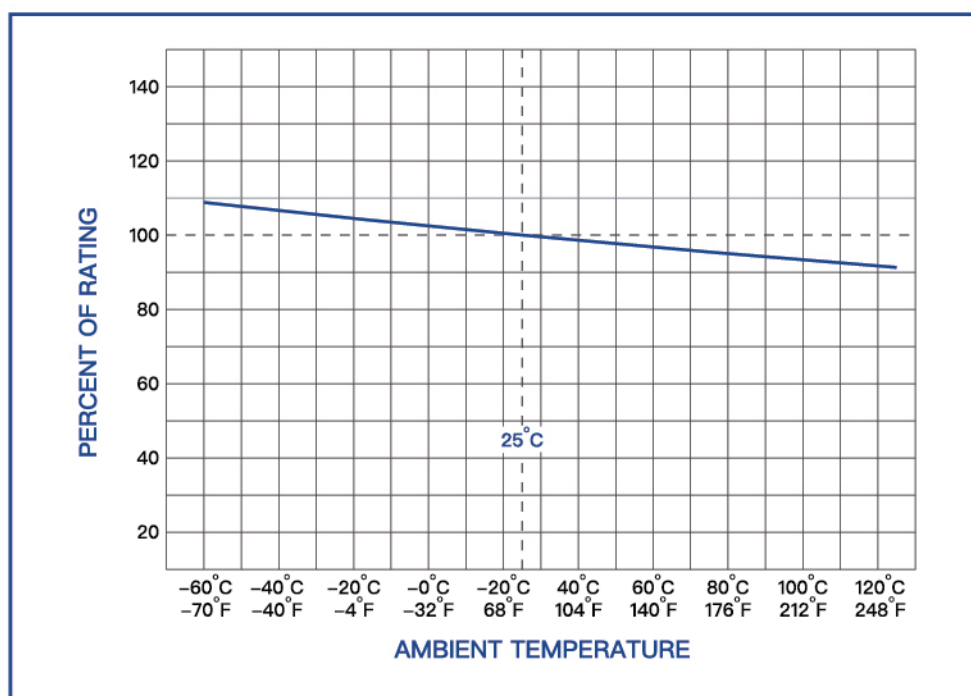
Humidity: Relative humidity ≤ 75% store 3 years average.

■ 若操作环境温度超出25±5°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 20~30°C, engineer should consider the environmental temperature's affection to fuses.

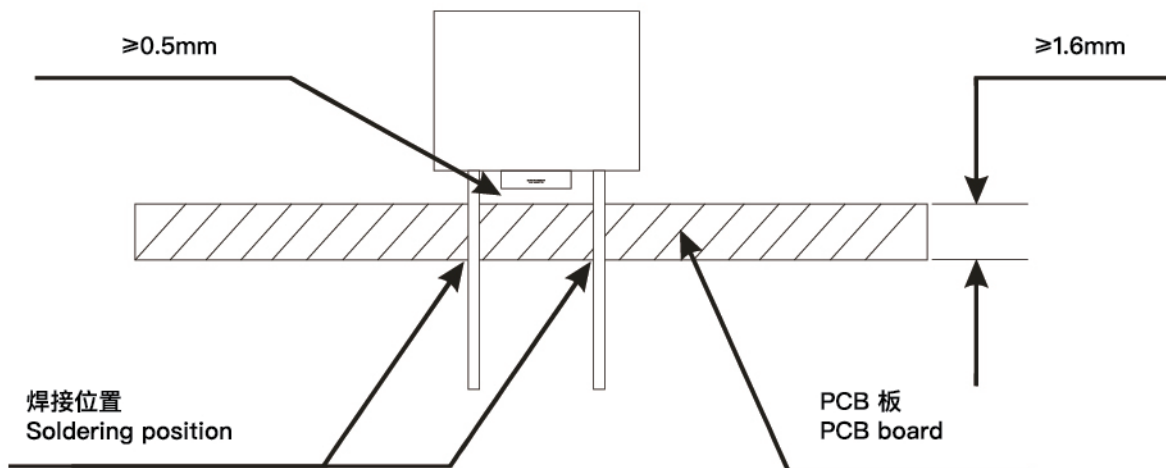
Please refer: Temperature Rerating Curve:



安装建议 / Installation Recommendations

■ 建议按照如下示意图方式进行安装。

Propose installation way as following picture.



■ 建议焊接参数 / Recommended Soldering Parameters

A. 波峰焊参数 / Wave Parameters:

锡炉温度 / Solder Pot Temperature: 260°C Max

焊接时间 / Solder Dwell Time: 2~5s

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: 1~2 s Max

包装 / Packaging

■ 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.

■ 包装数量 / Packing Quantity

A. 散装 / Bulk packing:

每胶袋1000 个保险丝 / Bulk 1000 pcs in per poly bag;

每5 胶袋1 个内盒 / 5 poly bags in per inner box;

每4 个内盒1 个外箱 / 4 inner boxes in per outer carton

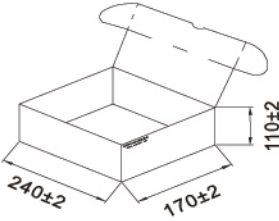
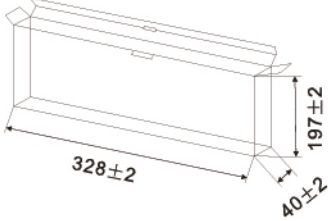
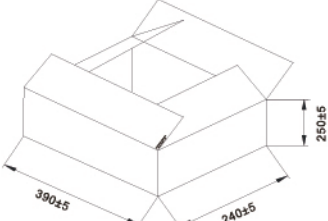
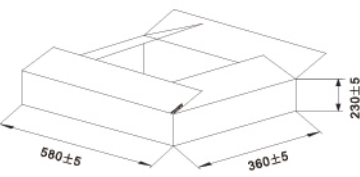
B. 编带包装/ Taped packing:

每个内盒1000 个保险丝/ 1000 pcs per inner box

每10 内盒1 个外箱 / 10 inner boxes per outer carton

■ 包装箱尺寸 / Packing Size

单位：毫米 / Unit: mm

散装内盒 Inner box of packing type A	编带内盒 Inner box of packing type B
L240±2 * W170±2 * H110±2	L328±2 * W197±2 * H40±2
	
散装外箱 Outer carton of packing type A	编带外箱 Outer carton of packing type B
L390±5 * W240±5 * H250±5	L580±5 * W360±5 * H230±5
	

其他 / Others

- 如果在使用中有超出本规格书的要求，须经双方协商确认。

In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.

- 如果本规格书有不适当的情况，须通过双方协商并由本公司修改。

In the event that an impropriety is found in this specification, REOMAX ELECTRONIC CO.,LTD. shall amend it by mutual agreement between the parties.