

SHENZHEN JINRUI ELECTRONIC MATERIAL CO.,LTD	PRODUCT	EDITION NO.	A/5
	SPECIFICATION	FILE NO.	LS/C-005-34
	MODEL: 12H	PAGE	PAGE 1 OF 5

### 1. 适用范围 Scope of Application

本产品适用于各种电子电路中起过电流保护作用。

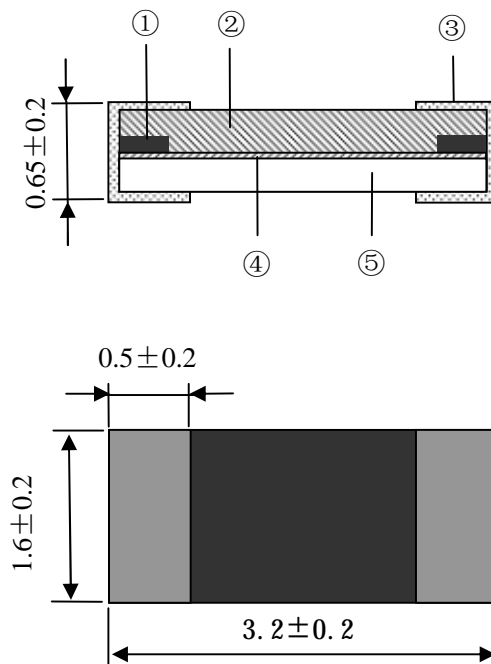
This product is suitable for various kinds of electronic machines to work for over current protection.

### 2. 相关标准 Relevant Standards

执行标准 Standard: UL248-1、UL248-14

### 3. 结构尺寸及原材料明细 Structure Size and Material Detail

#### 3.1 结构尺寸 Structure Size (unit: mm)



#### 3.2 原材料明细 Material Detail

编号 No.	零件名称 Part Name	材质 Material
①	电极 Electrode	银 Silver
②	涂层 Coating	玻璃浆 Glass cover
③	端头 End Termination	镀银 Silver plated
④	熔丝 Fuse element	银 Silver
⑤	基片 Substrate	陶瓷 Ceramic

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#### 4. 标示 Mark

4.1 保险丝上需有下列标示:

The fuse shall have the following marking:

额定电流 Ampere Rating	产品标示 Marking
250mA	.25
375mA	E
500mA	0.5
750mA	.75
1A	H
1.5A	K
2A	N
2.5A	O
<b>3A</b>	<b>P</b>
3.5A	R
4A	S
4.5A	X
5A	T
6A	F
7A	7
8A	M
10A	U

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## 5. 电气特性 Electrical Characteristics

5.1 实验条件: 所有测试环境温度为  $25\pm 5^{\circ}\text{C}$ 。

Test Condition: All electrical characteristics tests are conducted at an ambient temperature of  $25\pm 5^{\circ}\text{C}$ .

5.2 时间-电流特性

Time-Current Characteristics

额定电流 Ampere Rating	额定电流的% % of Ampere Rating	熔断时间 Opening Time
0.1A~10A	100%	4 hours Min(大于 4 小时)
0.1A~10A	250%	5 S Max(小于 5 秒)
0.1A~10A	300%	0.1 S~3 S
0.1A~10A	1000%	0.2 ms~20 ms

5.3 额定分断能力:

Interrupting Rating:

50 Amperes at 125V DC (0.1A~5A)

50 Amperes at 63V DC (0.1A~5A)

100 Amperes at 32V DC (6A~10A)

## 6. 环境特性 Environmental Characteristics

6.1 使用温度范围 Operating Temperature  
 $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$ 。

6.2 保存条件 Storage Conditions

相对湿度 $\leq 75\%$ , 可以存放 3 年。

Relative humidity $\leq 75\%$ , store 3 years.

## 7. 可靠性试验 Reliability Test

7.1 冷热冲击试验 Thermal Shock Test

MIL-STD-202G, Method 107G。

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7.2 防潮湿试验 Moisture Resistance Test

MIL-STD-202G, Method 106G。

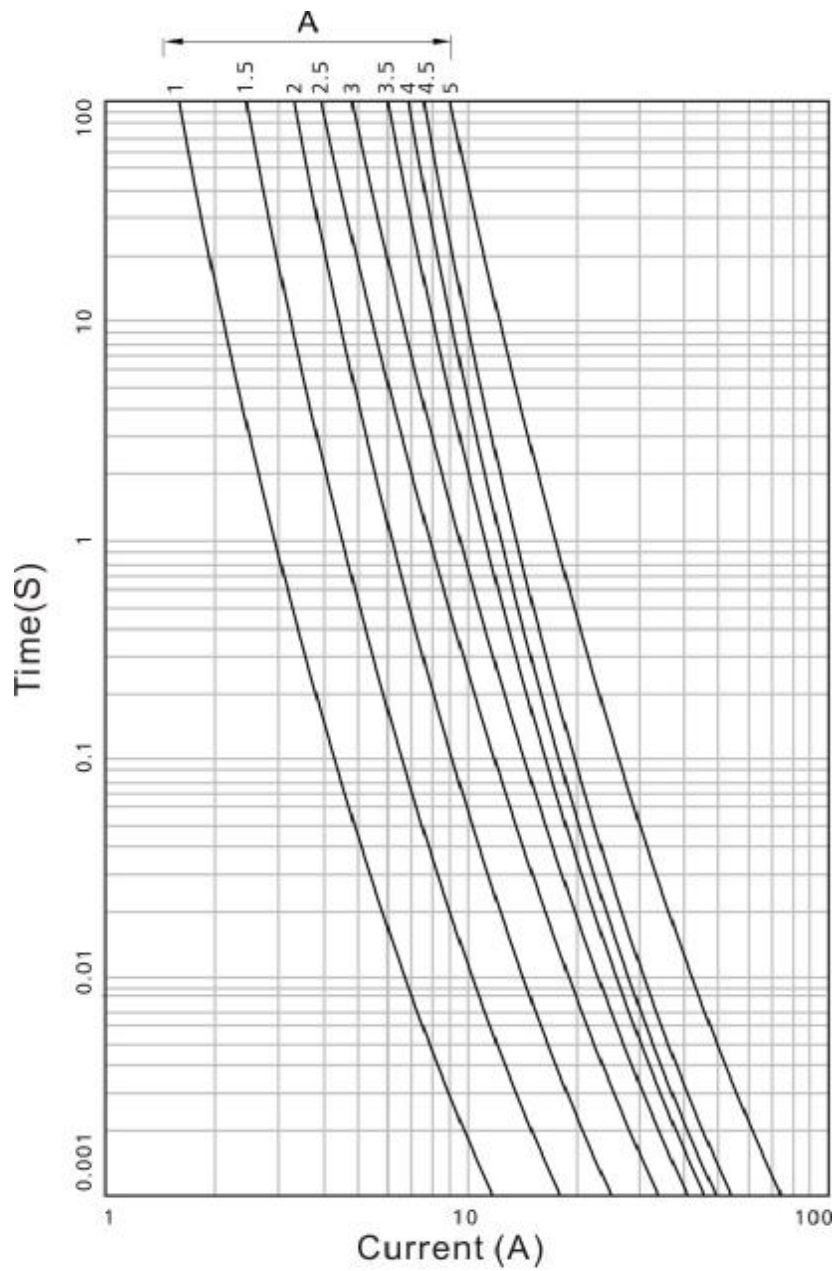
7.3 振动试验 Vibration Test

MIL-STD-202G, Method 201A。

7.4 可焊性试验 Solderability Test

MIL-STD-202G, Method 208H, IEC60127-2, IEC60068-2。

8. 时间-电流曲线图 Time-Current Curve



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## 9. 焊锡参数 Soldering Parameters

### 9.1 回流焊 Reflow Soldering

9.1.1 温度 Temperature 260°C

9.1.2 时间 Time ≤10 seconds

9.1.3 最大可以承受三次回流焊

Capable for three times reflow

### 9.2 波峰焊 Wave Soldering

9.2.1 温度 Temperature 260°C

9.2.2 时间 Time ≤10 seconds

### 9.3 手工焊锡 Hand Soldering

9.3.1 温度 Temperature 380°C

9.3.2 时间 Time ≤3 seconds

## 10. 包装 Packing

10.1 自动机器包装 3000PCS/卷。Automaton taped 3000PCS per reel.

10.2 包装尺寸 Packing Size (unit: mm)

