

SHENZHEN LANSON ELECTRONICS CO., LTD.	PRODUCT	EDITION NO.	A/5
	SPECIFICATION	FILE NO.	LS/C-005-39
	MODEL: 12B	PAGE	PAGE 1 OF 4

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. 相关标准及认证 Relevant Standards and Certification

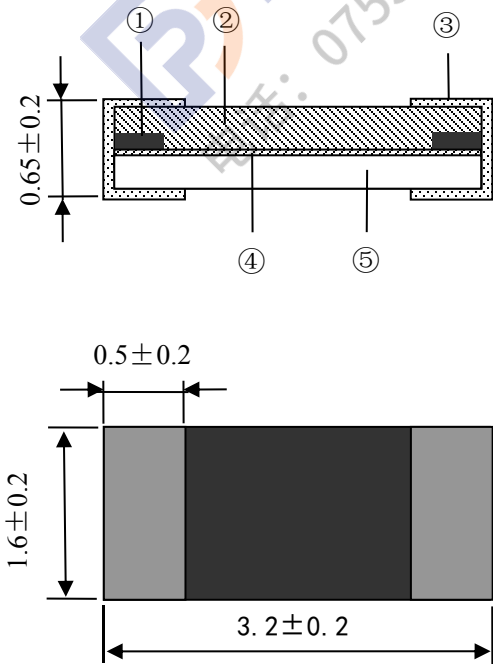
2.1 执行标准 Standard: UL248-1、UL248-14

2.2 认证 Certification

认证 Certification	认证范围 Scope of Certification	证书编号 Certification No.
UL	250mA~1.5A	E221465

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	1
1.25A	▲
1.5A	1.5

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
250mA~1.5A	100%	4 hours Min(大于 4 小时)
250mA~1.5A	250%	5 S Max(小于 5 秒)

5.3 额定分断能力:

Interrupting Rating:

50 Amperes at 125V AC/DC

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.

6.3 库存产品超过 1 年后需对产品可焊性和产品熔断性能进行验证。

The solderability and performance of the products in stock shall be verified after more than 1 year.

7. 可靠性试验 Reliability Test

7.1 冷热冲击试验 Thermal Shock Test

MIL-STD-202G, Method 107G。

7.2 防潮湿试验 Moisture Resistance Test

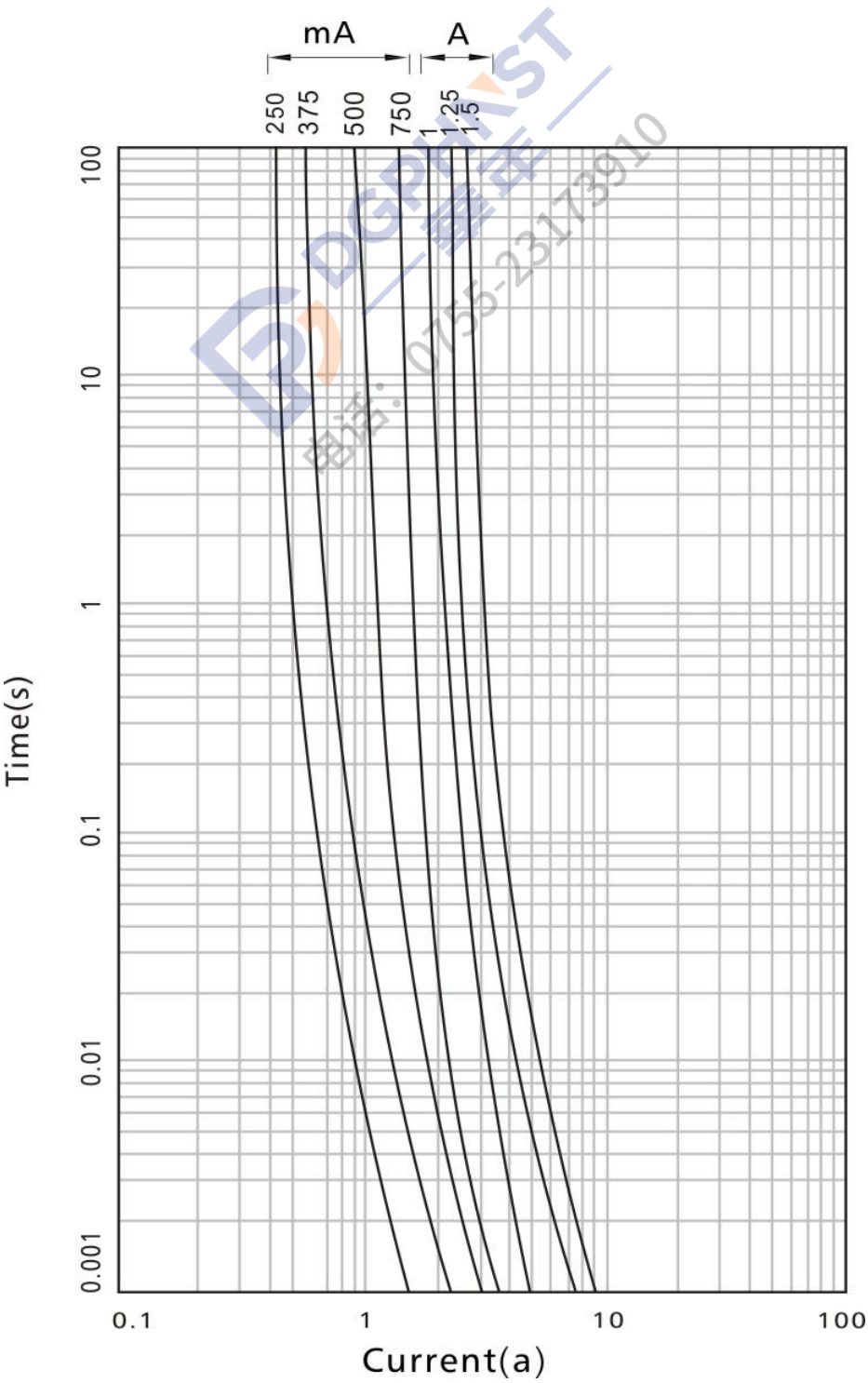
MIL-STD-202G, Method 106G。

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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 Slodering

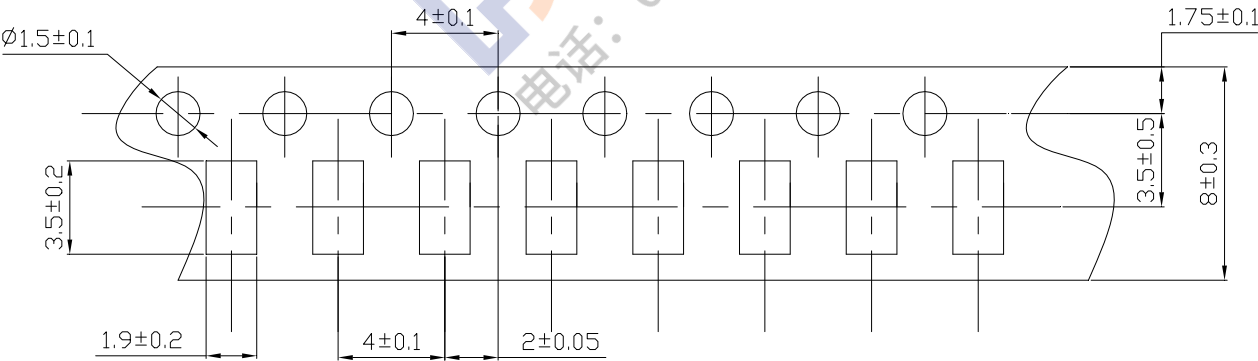
- 9.1.1 温度 Temperature 260℃
- 9.1.2 时间 Time ≤10 seconds
- 9.1.3 最大可以承受三次回流焊
Capable for three times reflow

9.2 手工焊锡 Hand Soldering

- 9.2.1 温度 Temperature 380℃
- 9.2.2 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)



JDYX2.E221465 - Fuses, Supplemental - Component

Fuses, Supplemental - Component

SHENZHEN LANSON ELECTRONICS CO LTD
A18TH BLDG
3 INDUSTRIAL ZONE
FUQIAO FUYONG TOWN, BAO'AN DISTRICT
SHENZHEN, GUANGDONG 518133 China

E221465

Cat. No.	Size mm(in)	Amps (A)	Volts (V)	Interrupting Rating (A)
Supplemental fuses				
5D	5.2 x 20 (0.20 x 0.79)	4-7	125Vac	100
		4-7	250Vac	100
		8-10	125Vac	100
		8-10	250Vac	100
5F	5.2 x 20 (0.20 x 0.79)	0.125-0.315	125Vac	35
		0.125-0.315	250Vac	35
		0.4-0.8	125Vac	35
		0.4-0.8	250Vac	35
		1-6.3	125Vac	35
		1-6.3	250Vac	35
5K	5.2 x 20 (0.20 x 0.79)	0.2-0.8	125Vac	35
		0.2-0.8	250Vac	35
		1-6.3	125Vac	63
		1-6.3	250Vac	63
		8-15	125Vac	50
		8-15	250Vac	50
5M	5.2 x 20 (0.20 x 0.79)	0.5-0.8	250Vac	1500
		1.0-3.15	250Vac	1500

Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed				
5HV(P)	5.5 x 21 (0.22 x 0.83)	0.1-25	600Vac	200
		-	-	-
		0.1-25	500Vdc	300
		0.1-15	400Vdc	2000
Supplemental fuses: pigtail leads, time delay				
SBT	12.3 x 6.5 x 9.6 (0.48 x 0.26 x 0.38)	0.1-25	400Vac	300
		0.1-25	350Vac	300
		0.1-25	300Vac	300
		0.1-25	250Vac	300
		0.1-25	125Vac	300
Supplemental fuses: pigtail leads, time delay, cartridge enclosed				
3N	4 x 11 (0.16 x 0.43)	0.1-20	125Vac	300
		0.1-20	250Vac	300
Supplemental fuses: pigtail leads, time delay, filled-tube, cartridge enclosed				
5N(P)	5.4 x 21.5 (0.21 x 0.85)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
Supplemental fuses: time delay, filled-tube, cartridge enclosed				
5N	5.2 x 20 (0.20 x 0.79)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
Supplemental micro fuses				
06D	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	0.25-1	32Vdc	50
		1.25-5	32Vdc	35
06H	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	1-5	32Vdc	50
12B	3.2 x 1.6 x 0.65 (0.13 x 0.06 x 0.03)	0.25-1.5	125Vac	50
		0.25-1.5	125Vdc	50

JDYX8.E221465 - Fuses, Supplemental Certified for Canada - Component

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5D	5.2 x 20 (0.20 x 0.79)	4-7	125Vac	100
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		8-10	250Vac	100
5F	5.2 x 20 (0.20 x 0.79)	0.125-0.315	125Vac	35
		0.125-0.315	250Vac	35
		0.4-0.8	125Vac	35
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		1-6.3	125Vac	35
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5K	5.2 x 20 (0.20 x 0.79)	0.2-0.8	125Vac	35
		0.2-0.8	250Vac	35
		1-6.3	125Vac	63
		1-6.3	250Vac	63
		8-15	125Vac	50
		8-15	250Vac	50
5M	5.2 x 20 (0.20 x 0.79)	0.5-0.8	250Vac	1500

		12-30	250Vac	150
Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed				
5HV(P)	5.5 x 21 (0.22 x 0.83)	0.1-25	600Vac	200
		-	-	-
		0.1-25	500Vdc	300
		0.1-15	400Vdc	2000
Supplemental fuses: pigtail leads, time delay				
SBT	12.3 x 6.5 x 9.6 (0.48 x 0.26 x 0.38)	0.1-25	400Vac	300
		0.1-25	350Vac	300
		0.1-25	300Vac	300
		0.1-25	250Vac	300
		0.1-25	125Vac	300
Supplemental fuses: pigtail leads, time delay, cartridge enclosed				
3N	4 x 11 (0.16 x 0.43)	0.1-20	125Vac	300
		0.1-20	250Vac	300
Supplemental fuses: pigtail leads, time delay, filled-tube, cartridge enclosed				
5N(P)	5.4 x 21.5 (0.21 x 0.85)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
Supplemental fuses: time delay, filled-tube, cartridge enclosed				
5N	5.2 x 20 (0.20 x 0.79)	0.1-15	250Vac	1500
		0.1-30	250Vac	1500
Supplemental micro fuses				
06D	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	0.25-1	32Vdc	50
		1.25-5	32Vdc	35
06H	1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	1-5	32Vdc	50
12B	3.2 x 1.6 x 0.65 (0.13 x 0.06 x 0.03)	0.25-1.5	125Vac	50
		0.25-1.5	125Vdc	50