

Table of selection parameters

[illegible]



贴片产品规格书

SMD Fuses Specification

1. 适用范围 (Available range) :

本保险丝适用于保护家用电器, 充电器, 电子仪器, 电源供应器、显示器等。

For protecting instruments, chargers, power supply devices and telephone sets etc.

2. 型号定义解释 (Model meaning) :

06F: 0603 贴片快断系列产品 (06F: 0603 SMD Quick Blow Fuses)

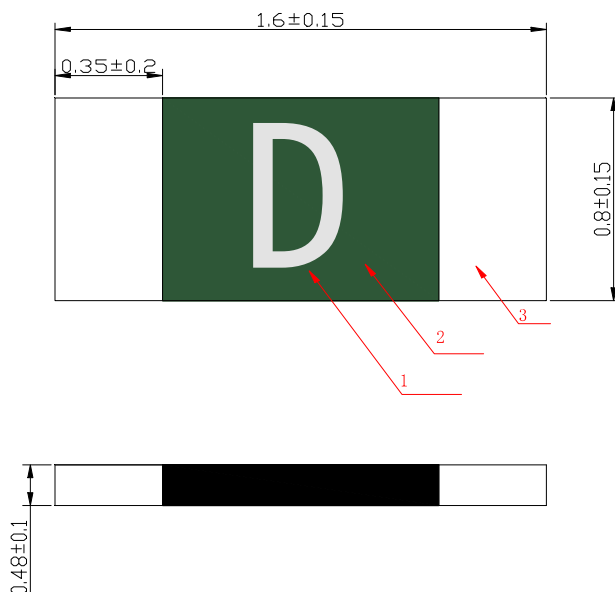
3. 相关标准 (Safety Standards) :UL248



4. 尺寸与结构 (Size and Structure) :

4.1 外形、结构及尺寸 (The out view, construction and dimensions) :

参考下图 Refer to the following figure.





编号 No.	部件 Part Name	材料 Material	备注 Remarks
①	字符层	字符浆	
②	封装层	介质浆料	
③	封端	导体银浆	镀锡, 厚度: >4μm

4.2 型号及标示 (Model and indication)

目录编号 Catalog No.	额定电流 Rated Current	额定电压 Rated Voltage	标示 Marking
06F0250	250mA	32V	D
06F0375	375mA	32V	E
06F0500	500mA	32V	F
06F0750	750mA	32V	G
06F1000	1A	32V	H
06F1250	1.25A	32V	J
06F1500	1.5A	32V	K
06F2000	2A	32V	N
06F2500	2.5A	32V	O
06F3000	3A	32V	P
06F3500	3.5A	32V	R
06F4000	4A	32V	S
06F5000	5A	32V	T



4.3 本体 (Body)

本体无破裂、缺损等现象。

The fuse body shall have no defects such as crack, injury and contamination.

5. 电气特性 (Electrical performance)

5.1 测试条件 (Testing Ambient)

测试条件都应在下列大气条件下进行：

All tests should be carried out under the following conditions:

- 温度 (Surrounding temperature) : $15^{\circ}\text{C}\sim 35^{\circ}\text{C}$;
- 相对湿度 (Relative humidity) : $45\%\sim 75\%$;
- 大气压力 (Atmosphere pressure) : $8.6\times 10^4\text{ Pa}\sim 1.06\times 10^5$

5.2 时间/电流特性 (Time-current Characteristic)

型号类别 (Item No.)	电流 (In ratio)	
	100%	250%
06F	$\geq 4\text{h}$	$\leq 5\text{s}$

5.3 温升测试 (Temperature test)

当通 1 倍额定电流测试 1 小时后，在保险丝达到热平衡 2 个小时内，测得的最大温升小于 135K。

When a current $1I_n$ is passed through the fuse-link for a period of 1h., after the heat get the balance in two hours, the rising temperature should be less than 135K.

5.4 分断能力 (Breaking capacity)

在额定电压条件下，通过 50A 电流测试后，标识清晰可见，没有引燃或爆炸

Do the experience of breaking capacity, under the situation of DC 32V 50A, After the test, the marking shall still be legible, and the fuse-link shall operate satisfactorily without ignition and Bursting. for example, shall not show and appreciable deterioration.

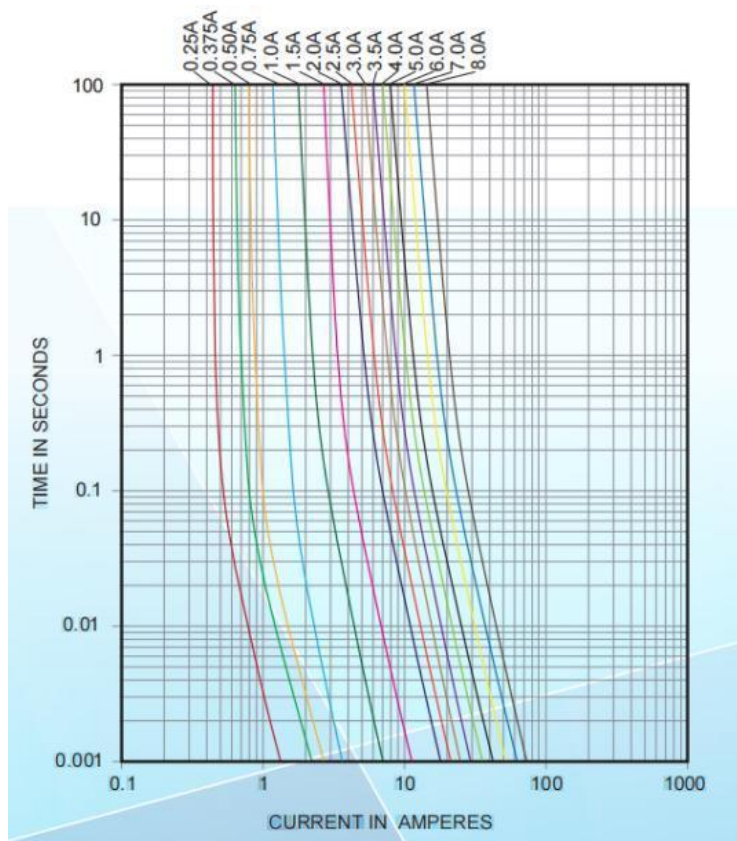
注意：颜色改变不认为是不合格。

NOTE: changes in color are not considered as a failure.



5.5 时间电流特性曲线图 (Time-current curves)

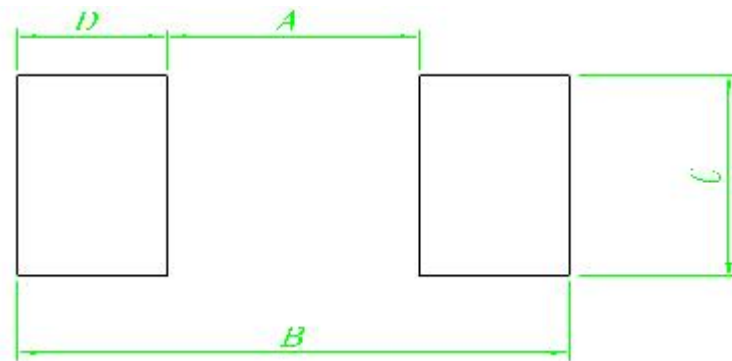
06F I-T Average CHARACTERISTICS CURVE(For Reference)



6. 安装方式及条件 Installation Way and Parameters

6.1 建议如下图焊盘安装

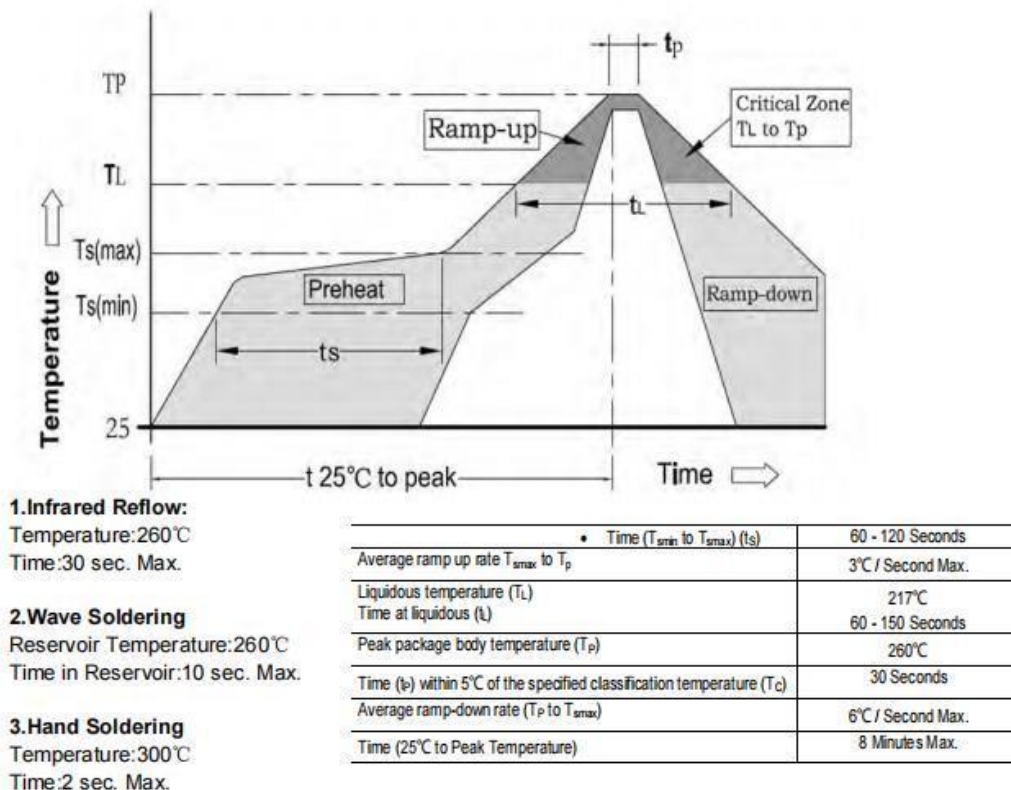
Propose that the following picture installation way is installed



Dimensions	A	B	C	D
Spec/mm	0.6 ± 0.3	2.6 ± 0.5	0.9 ± 0.3	0.9 ± 0.3



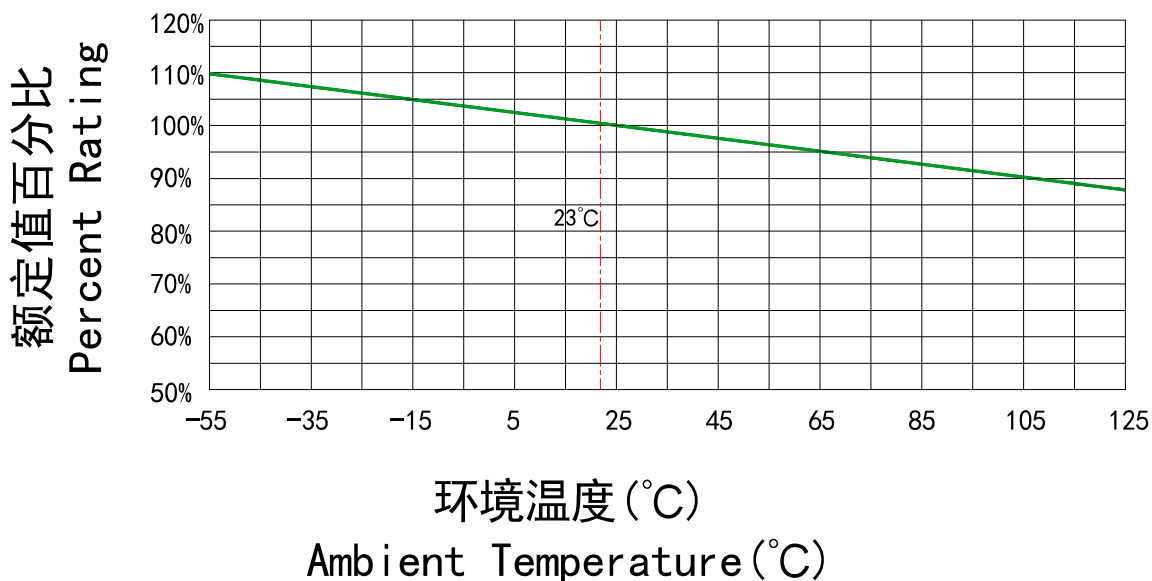
6.2 环保焊接条件 Soldering conditions(ROHS)



7 环境特性 Environmental characteristic

- (1) Normal ambient temperature: 23+/-3°C
- (2) Operating temperature: -55 ~ +125°C, with proper correction factor applied

7.1 温度-电流负荷比曲线 Temperature-Current Curve





8. 信赖性试验(Reliability test)

项目/Item	试验要求/Test Requirement	试验条件/Test Condition
高低温试验 High & low Temperature Test	试验后保险丝管的电阻符合范围 After test, the resistance value of the fuses shall be in range	测试高温: 85℃, 测试时间:48h Test high temperature:85℃, Test time:48h 测试低温: -20℃, 测试时间:48h Test low temperature:-20℃, Test time:48h
高湿试验 High Humidity Test	试验后保险丝管的电阻符合范围 After test, the resistance value of the fuses shall be in range	测试温度: 85℃, 测试湿度: 95%, 测试时间: 96h Test temperature:85℃, Test humidity:95%, Test time:96h
落下、冲击实验 Falling Shock Test	铜帽应固定牢固, 以保证在未损坏熔断体时, 铜帽不能被卸下, 铜帽表面镀层应牢固不易脱落, 每个端帽应能经受专用的设备外加轴向拉力 5N, 保持 1 分钟, 陶瓷管必须无缺陷破裂和缺损。试验后保险丝管的电阻符合范围。 Cap should be firmly attached so that it is not possible to remove them without damaging the fuse itself. The means of attachment shall be sufficient to withstand an axial pull of 5N applied to each cap for 1 minute. The cap shall be nickel plated firmly. The glass tube shall have no defects such as crack and injury. After falling shock test, the resistance value of the fuses shall be in range.	保险管从 152cm 高自由落下, 跌落 5 次。 Falling Height:152cm Falling Times:5
振动试验 Vibration	试验后保险丝管的电阻符合范围 After test, the resistance value of the fuses shall be in range	振幅 1.5mm, 频率 10~55~10Hz, 时间 2 小时 Amplitude:1.5mm, Frequency:10 ~ 55 ~ 10Hz, Test time:2h

9. 产品标志(Marking)

9.1 保险丝上的标志应易于看清。

The marking on fuse shall be indelibly marked on the end cap and easily visible.

9.2 每个保险丝标记应包含下列内容:

The symbol for every fuse shall be as prescribed below:

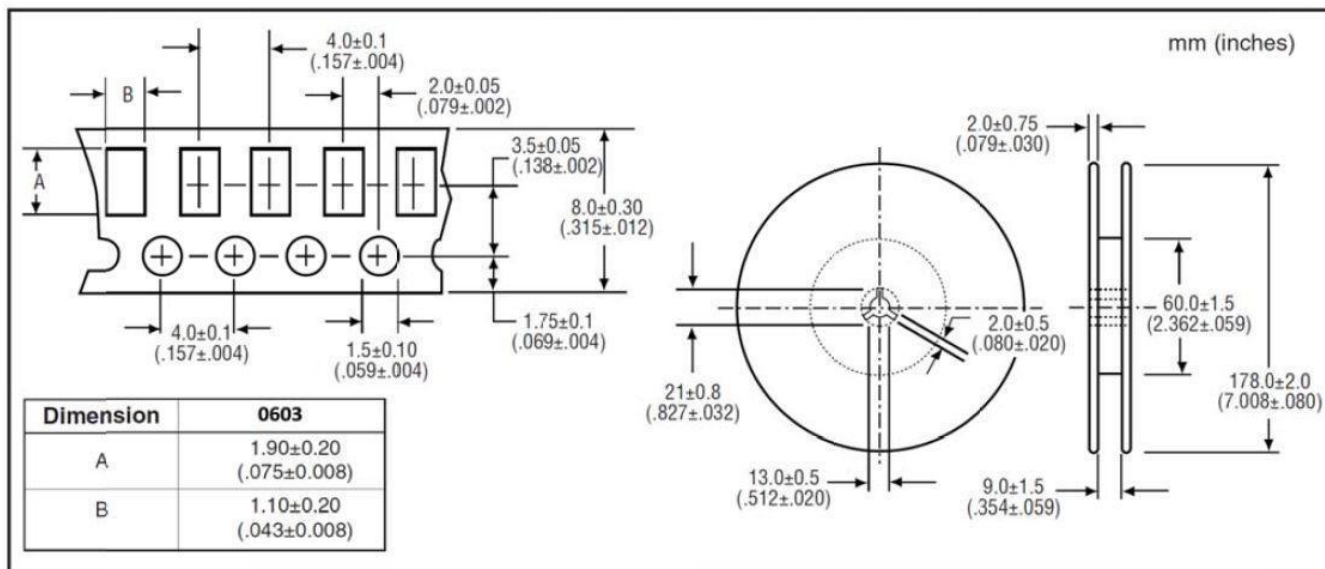
额定电流(Rated current): 、H (1A) 、J (1.25A) 、K (1.5A) 、N (2A) 、O (2.5A)、
P (3A) 、R (3.5A) 、S (4A) 、T (5A)



10. 包装 (Packaging)

每卷 5K 保险丝, 装入一个包装盒, 每 100K 装一箱, 包装数量仅供参考, 以实际数量为准.

5K Pieces paper taped and reeled in one box, 100K/External Carton.



5K/ Paper Taped and
Reeled



5K/Box



100K/ External Carton

11. 举例：料号解释/Part No. description

001. 0250 3 0001
↓ ↓ ↓ ↓
06F Series 250mA 32V Information Code



UL iQ for Fuses



Fuses

E249609

Guide Information

XC ELECTRONICS (SHENZHEN) CORP LTD

BLDG 11, HEAO HENGANG, JINYUAN INDUSTRY ZONE, SHENZHEN GUANGDONG 518115 CN

06F

Supplemental micro fuses: surface mount

<u>Size</u> <u>mm(in)</u>	<u>Amps</u> <u>(A)</u>	<u>Volts</u> <u>(V)</u>	<u>Interrupting</u> <u>Rating (A)</u>
1.6 x 0.8 x 0.48 (0.06 x 0.03 x 0.02)	0.25 - 5	32Vdc	50
Report Date: 2020-07-20	© 2021 UL LLC		
Last Revised: 2020-07-22			

