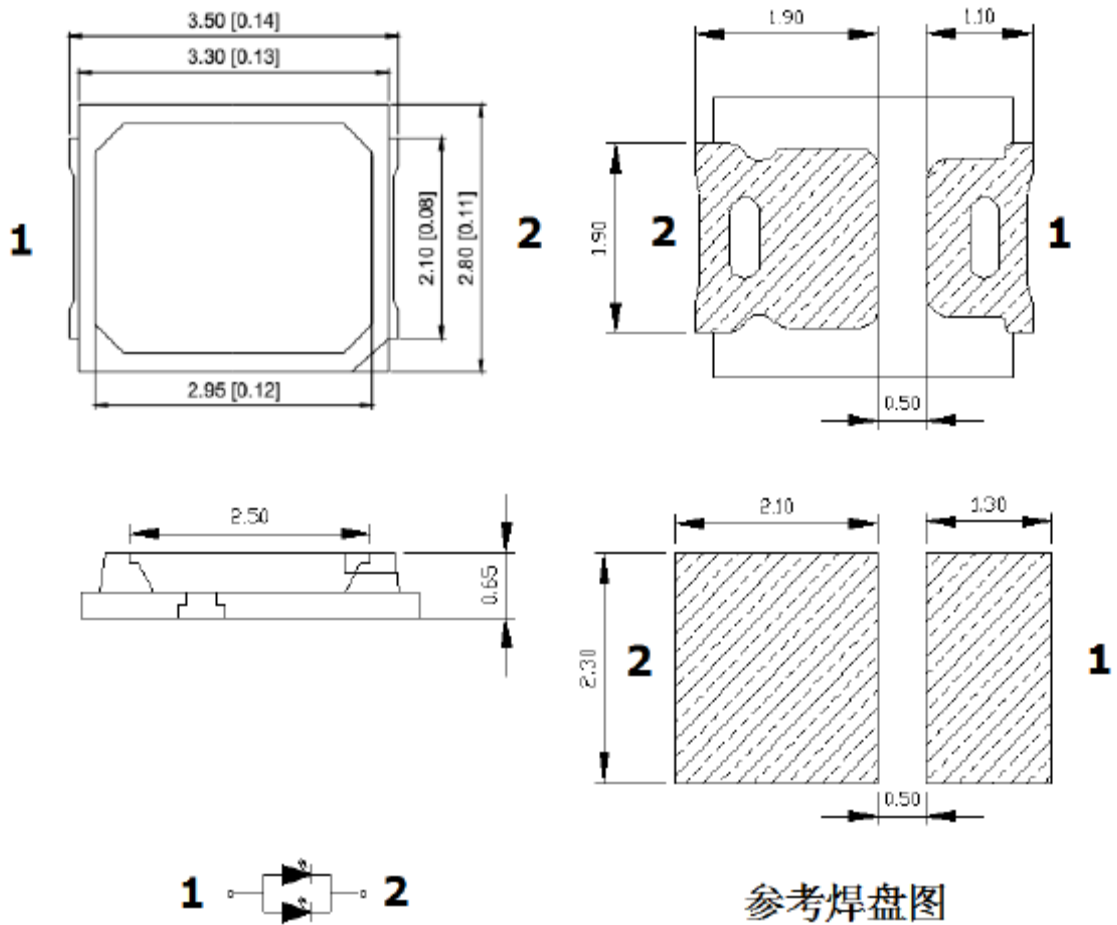
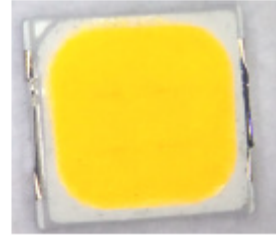




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1. 外形尺寸 Dimensions

单位(Units):毫米(mm)



参考焊盘图

备注/Postscript:

所有尺寸单位为 mm，如无特殊说明误差范围为 $\pm 0.1\text{mm}$

All dimensions area in mm tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.



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2. 光电特性 Electrical & Optical characteristics

(1) .极限参数 Absolute Maximum Data

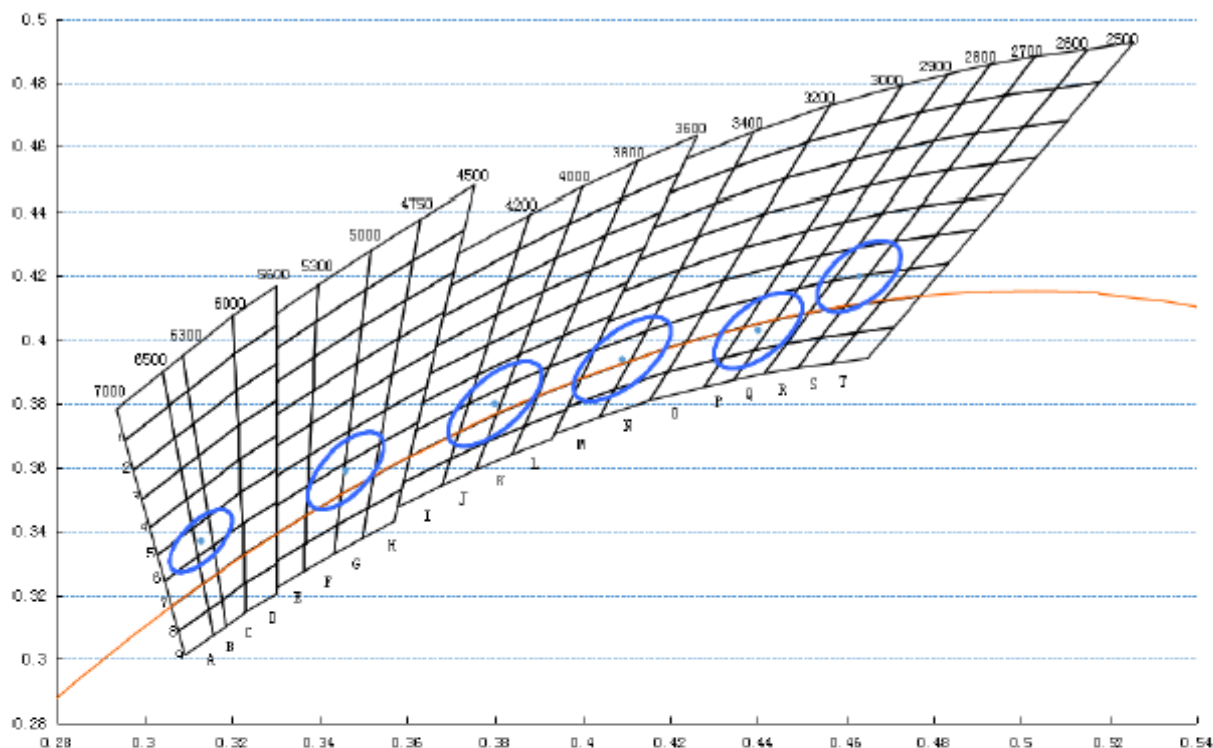
项目/Item	符号/Symbol	数值/Value	单位/Unit
正向电流 Forward Current	IF	150	mA
工作温度 Operating Temperature	Topr	-40°C To +105°C	°C
结点温度 Junction Temperature	Tj	115	°C
储存温度 Storage Temperature	Tstg	-40°C To +85°C	°C
静电击穿电压 ESD Sensitivity	~	±2,000V HBM	V
反向电压 Reverse Voltage	VR	5	V
反向电流 Reverse Current	IR	5	uA
峰值正向电流 Peak Forward Current	IFP	180	mA
焊接温度 Soldering Temperature	Tsld	Reflow Soldering : 260°C Hand Soldering : 300°C	for 10sec. for 3sec.

(2) . 光电特性 Electrical & Optical characteristics

参数 Parameter	符号 Symbol	条件 Condition	显指 CRI	Min	Typ	Max	单位 Unit
正向电压 Voltage	VF	IF=150mA/Ta=25°C	/	6.0	--	6.8	V
光通量 Luminous flux	φV	CCT: 6000-6500	70	100	--	110	LM
		CCT: 4000-4500	70	100	--	110	
		CCT: 3000-3200	60	90	--	100	
发光角度 Emitting Angle	20 1/2	/	-	--	120	--	deg.

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(3) 色区参考图 The color map for reference



中心色温	2700K	3000K	3500K	4000K	5000K	6500K
X	0.463	0.44	0.409	0.38	0.346	0.313
Y	0.42	0.403	0.394	0.38	0.359	0.337

电压标准分档 0.3V/档/ 光通量标准分档 10LM/档

备注/Postscript:

正向电压允许误差 $\pm 0.05V$. Tolerance of measurement of Vf is $\pm 0.05 V$.
 光通量允许误差 $\pm 5\%$. Luminous Intensity Measurement allowance is $\pm 5\%$
 色温误差范围 $\pm 100k$. Colour Temperature Measurement allowance is $\pm 100k$
 显色指数允许误差-1. Color Rendering Index Measurement allowance is -1
 参数仅为灯珠测试数据,应用于成品后会有变化.Parameter is only lamp test data assembly of finished products will change

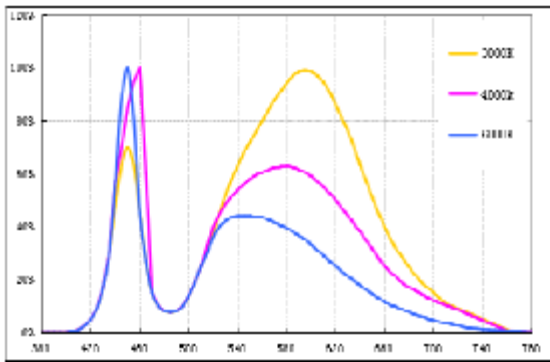


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3. 典型特性曲线 / Typical Characteristic Curves

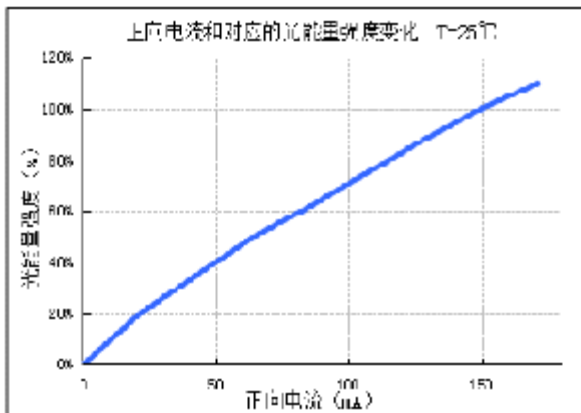
(1) 典型光谱分布

Typical spectral distribution



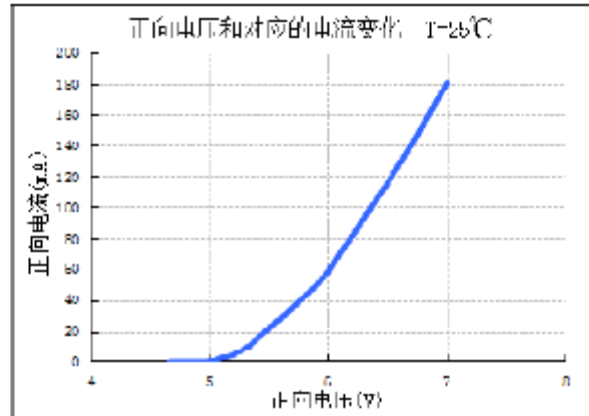
(3) 正向电流与相对光通量曲线图

Forward Current & Relative Luminous Flux Curve



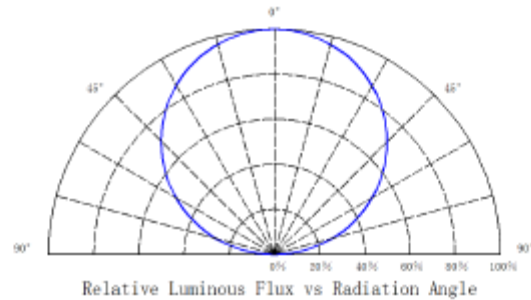
(5) 电性特征曲线图

Electrical Characteristics Curve



(2) 典型发光角度辐射图

Typical Emitting Angle Radiation Pattern



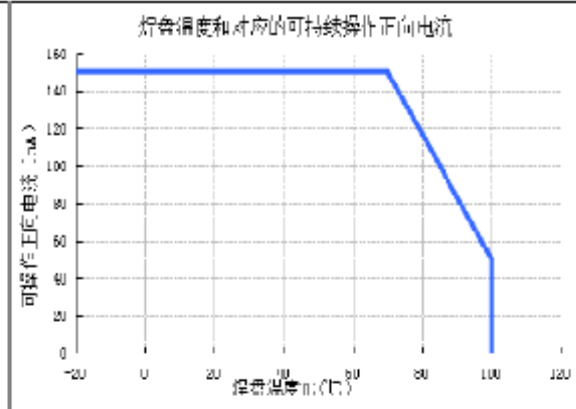
(4) 输出光通量与温度曲线

Relative Luminous Flux & Temperature



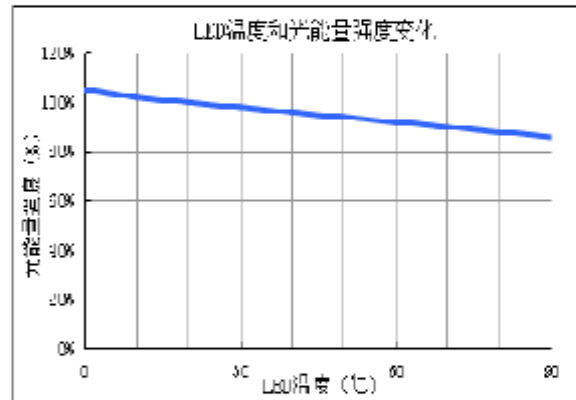
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(6). 焊盘温度与正向电流特性曲线 Soldering Temperature vs. Forward Current



4. 可靠性试验/Reliable Project Test And Conditions

测试项目及结果 Test Items and Results



项目 Test Items	测试条件 Test Condition	时间 Time	数量 Quantity	接收/拒收 Ac/Re
常温通电 Life Test	Ta=25°C±5°C IF=150mA	1000Hrs.	22Pcs.	0/1
高温保存 High Temperature Storage	Temp:100°C±5°C	1000Hrs.	22Pcs.	0/1
低温保存 Low Temperature Storage	Temp:-40°C±5°C/	1000Hrs.	22Pcs.	0/1
温度循环 Temperature Cycle	100°C±5°C 30 min. ↑ ↓ 5 min -40°C±5°C 30 min.	100 Cycles.	22Pcs.	0/1



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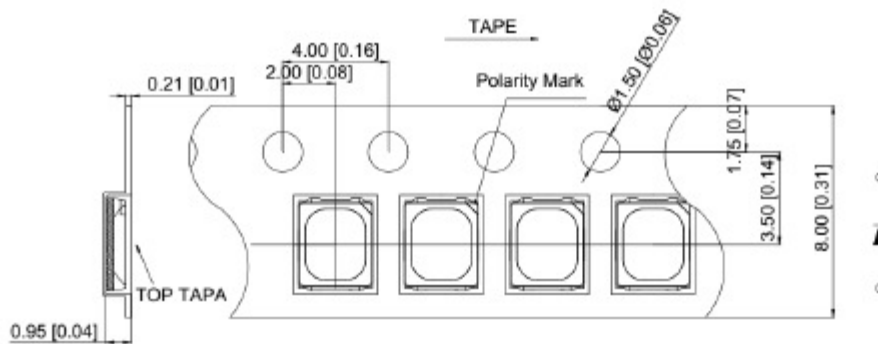
回流焊 Reflow	Temp:260°Cmax T=10 sec	3 times.	22Pcs.	0/1
高温高湿通电 High Temperature High Humidity Life Test	85°C±5°C/ 85%RH IF=150mA	1000Hrs.	22Pcs.	0/1

失效判定标准 Criteria For Judging Damage

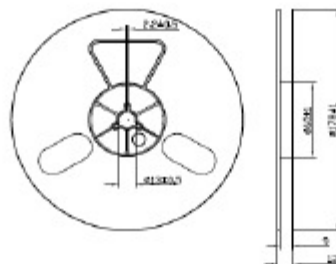
项目 Test Items	测试条件 Test Condition	判定标准 Criteria For Judgement	
		Min. 最小	Max. 最大
正向电压 Forward Voltage	IF=150mA	/	U.S.L*)x1.1
反向电流 Reverse Current	VR=5V	/	U. S. L*)x2.0
光通量 Luminous Flux	IF=150mA	L.S.L*)x0.7	/

5. 包装/Packaging

(1). 装带规格 Taping Specifications (单位:毫米 Units:mm)



(2). 卷轴尺寸 Reel Dimension

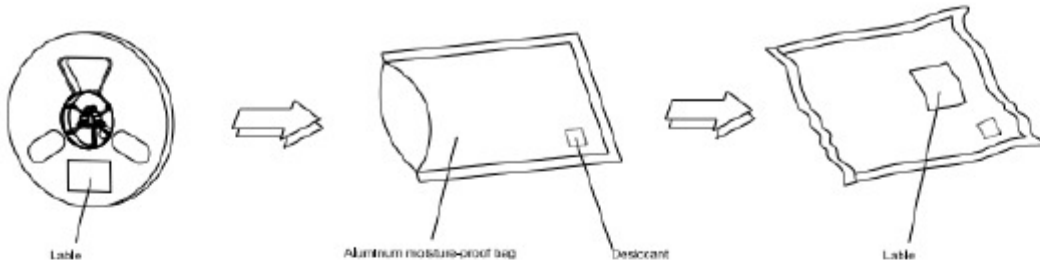




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每卷数量 4000 个/卷. Package: 4000Pcs/Reel

(3).防潮袋包装.Moisture Resistant Packaging



(4)LED 在装带之后纸箱包装. The LED are packed in cardboard boxes after taping.

(5) 最小包装标签注明以下:产品名称.批号.参数范围.数量.

The label on the minimum packing unit shows ; Part Number, Lot Number, Ranking, Quantity.

(6) 请注意防水防潮. Keep away from water, moisture in order to protect the LED.

(7) 须采取适当防护措施,以防包装箱跌落或受到强力撞击造成对产品的损伤.

The LEDs may be damaged if the boxes are dropped or receive a strong impact against them. so precautions must be taken to prevent any damage.

6.注意事项/Cautions

(1) 焊接条件 Soldering Conditions

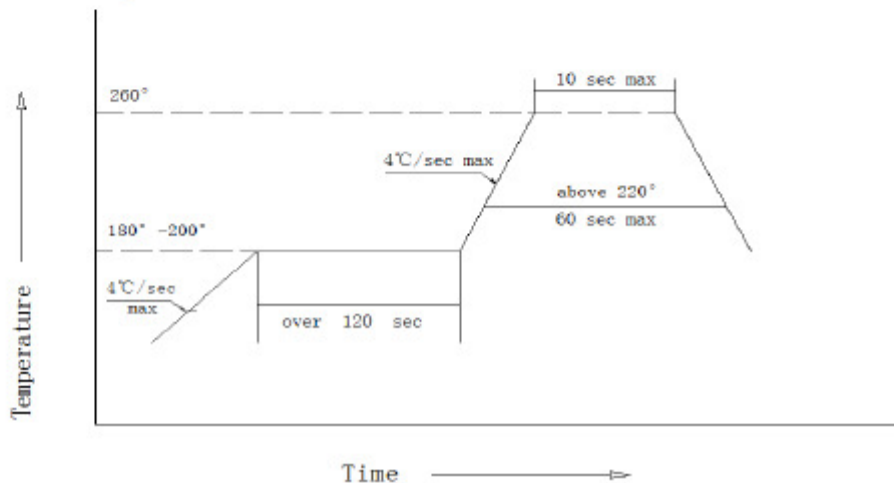
1.1 回流焊 不可以做两次以上

Reflow soldering should not be done more than two times

1.2 当回焊时,不要在材料受热时用力压胶体表面

When soldering , do not put stress on the LEDs during heating

SMT Reflow Soldering Instructions SMT 回流焊说明





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(2)烙铁焊接 Soldering iron

2.1当手工焊接时,烙铁的温度必须小于300°C·时间不可超过3秒

When hand soldering, the temperature of the iron must less than 300°C for 3 seconds

2.2 手工焊接只可焊接一次

The hand solder should be done only one times

(3)静电 Static Electricity

3.1 触摸 LED 时,推荐使用防静电手腕带或防静电手套.

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.

3.2 所有装置、设备、机器均应接地.

All devices, equipment and machinery must be properly grounded.

3.3 静电损坏的 LED 会显示出异常特征:正向电压变低或在低电流时死灯.

Damaged LEDs will show some unusual characteristics such as the forward voltage becomes lower, or the LEDs do not light at the low current.

(4)防潮包装 Moisture Proof Package

使用防潮包装

It is recommended that moisture proof package be used .

(5)储藏 Storage

打开包装之前,LED 在温度为 30°C 或更低湿度 60%RH 以下,可保存一年.

Before opening the package ,The LEDs should be kept at 30°C or less and 60%RH or less. The LEDs should be used within a year.

(6)打开包装之后,应在 24hrs 内焊接完毕.

After opening the package, The LEDs should be soldered within 24 hours (1days) after opening the package.

(7)使用注意事项 Cautions:

7.1. 产品为硅胶封装,禁止有外力在产品硅胶表面产生压力

Products for the silica gel encapsulation, banned produced by external pressure on the surface of silica gel products

7.2. 在开包装之前,请先检查包装袋有无漏气,如果有漏气现象,请退回我司重新烘烤除湿包装后再使用。

Please check if there is air leak before opening the package, if so, please return the goods back to take drying process for later using.

7.3 抽真空包装材料未超过 30 天可正常使用,包装袋开启后,产品必须:

Vacuum packaging materials can not be used for more than 30 days, after the opening of the bag, the product must be:

7.3.1 在 24hrs 内未焊接完毕。

Soldered within 24 hrs

7.3.2 要在规定环境条件中使用: 温度:30°C 以内 湿度 :60%RH 以下

Used in the condition: 30°C within and 60%RH below

7.3.3 存储低于 30%RH。

Stored in 30%RH for moisture below.

7.4. 抽真空包装材料超过 30 天(含)以上未使用,再使用时需重新拆铝箔袋取出烘烤 60°C/12H 除湿后才可使用。

Products cannot be used for and over 30days after being packaged unless opening the package and take drying our process in 60°C/12H.



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7.5. 材料拆装后使用时间超过 24H 未用完，需烘烤 60℃/12H 除湿后才可使用。

Products not be used after opening the package need to be dried out for 60℃/12H

7.6. 此产品设计不针对下列任何条件，如在下列任何条件下使用产品，请确定其正常性能和可靠性：
如：潮湿，有露水凝霜，盐水空气，腐蚀性气体的地方（Cl, H₂S, NH₃, SO₂, NOX, 等）；太阳直晒下，户外暴露，多灰尘的地方。水中，油，医用液体和有机溶剂等。

This product design is not targeted at any of the following conditions, such as the use of the product in any of the following conditions, make sure the normal performance and reliability; Such as: wet with dew, frost, salt air, corrosive gases (Cl, H₂S, where NH₃, SO₂, NOX); Exposure to the sun under, Outdoor exposure, Dusty place. Water, oil, medical liquid and organic solvent.

7.7. 电源驱动选取：本产品需使用恒流电源进行驱动，且输出电流符合规格书上的功率使用范围，如需使用恒压电源或其他使用条件，请进行使用效果风险评估

Power supply select: this product is powered by using a constant current driver, and the output current of the power range meets the requirement of specifications book, if use constant voltage source or other conditions, please do risk assessment.

7.8. 产品正常工作温度：TS 点（负极焊盘）小于 75℃，散热体温度小于 70 度，为了保持温度低于额定温度，需要确保散热器有足够的散热性能，如果超出我司给定要求，客户必须做产品可靠性评估，风险由客户承担。

Normal operating temperature: TS point (negative pad) is less than 75℃, The heatsink temperature less than 70℃, In order to keep the temperature below the rated, You should ensure that there is adequate heat dissipation performance of the radiator, if exceeded, customer needs to make reliability assessment, customer takes the risk