

Part No./型号: **SL-460UYTSL-03N**

样品承认书

SPECIFICATION FOR APPROVAL

客户名称 Customer			
送样规格 Specification			SL-460UYTSL-03N
送样日期 Deliver Date			
基本参数 Basic parameters			参见规格书
特殊要求 Special Requirements			无
拟制 Issued	审核 Checked	批准 Approved	客户承认盖章 Customer Approved Signatures
客户意见 Customer Feedback:			

您的宝贵意见是我们进步的源泉! Your advices are our source of progress!

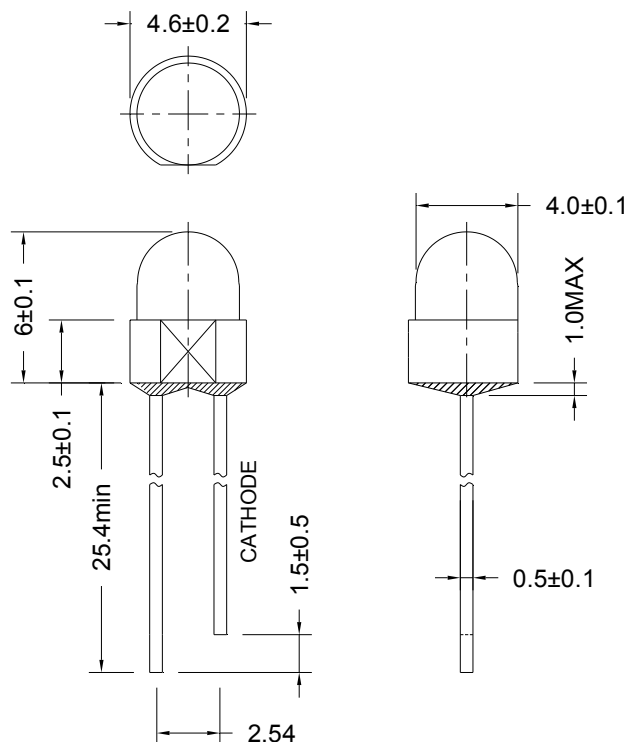
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➤ Features/特征:

- Single color/单色
- Low power consumption/低功耗
- High reliability and long life/
可靠性高、寿命长

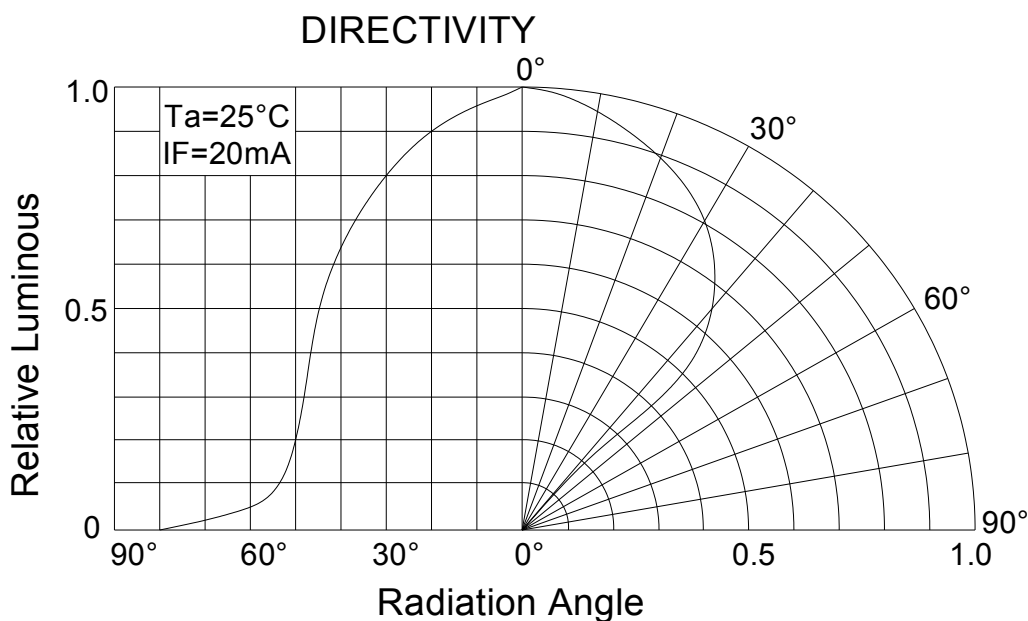
➤ Descriptions/描述:

- Dice material/芯片材质: AlGaInP
- Emitting Color/发光颜色:
Yellow / 黄色
- Device Outline/产品外形:
Φ4mm Round Type/ 4mm 圆形
- Lens Type 胶体颜色:
Yellow Transparent /黄色透明



➤ Directivity/指向特性:

1. All dimensions are millimeters/单位: mm.
2. Tolerance is ± 0.25 mm unless otherwise noted/
没有标注的公差均为 ± 0.25 mm.



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➤ **Absolute maximum ratings/极限参数 (Ta = 25℃)**

Parameter 参数	Symbol 符号	Test Condition 测试条件	Values 数值		Unit 单位
			Min.	Max.	
Reverse Voltage 反向电压	VR	IR = 30 μA	5	----	V
Forward Current 正向工作电流	IF	----	----	30	mA
Power Dissipation 损耗功率	Pd	----	----	75	mW
Pulse Current 正向峰值电流	Ipeak	Duty=0.1mS, 1kHz	----	100	mA
Operating Temperature 工作温度范围	Topr	----	-40	+85	℃
Storage Temperature 储存温度范围	Tstr	----	-40	+100	℃
Soldering Temperature 焊接温度	Tsd	t ≤ 3sec, 2mm from case	----	260	℃

➤ **Electrical and optical characteristics/光电参数 (Ta = 25℃)**

Parameter 参数	Symbol 符号	Test Condition 测试条件	Values 数值			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	VF	IF=20mA	1.8	2.0	2.2	V
Reverse Current 反向电流	IR	VR=5V	----	----	30	μA
Dominate Wavelength 主波长	λd	IF=20mA	585	589	594	nm
Peak Wavelength 峰值波长	λp	IF=20mA	----	591	----	nm
Spectral Line half-width 半波长宽度	Δλ	IF=20mA	----	10	----	nm
Luminous Intensity 发光强度	Iv	IF=20mA	----	200	----	mcd
Viewing Angle 指向角度	2θ 1/2	IF=20mA	----	80	----	deg.

➤ **Luminous Intensity Bins/亮度等级分档 (Ta = 25℃)** Unit:mcd

Bin	M	N	P
Min	145	200	280
Max	200	280	390

➤ **Dominate Wavelength Bins/波长等级分档 (Ta = 25℃)** Unit:nm

Bin	Y3	Y4
Min	588	591
Max	591	594

➤ **Forward Current Bins/电压等级分档 (Ta = 25℃)** Unit:V

Bin	V2	V3
Min	1.8	2.0
Max	2.0	2.2

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➤ **Typical electrical/optical characteristic curves/光电特性曲线:**

Fig.1 正向电流 Vs. 正向电压

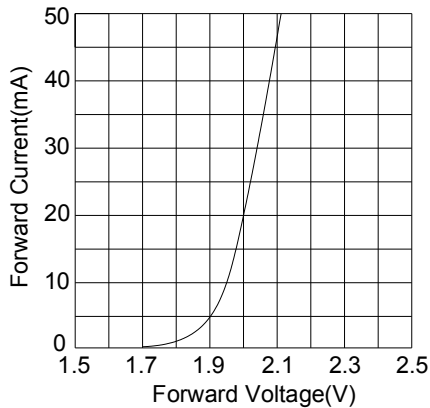


Fig.2 相对亮度 Vs. 正向电流

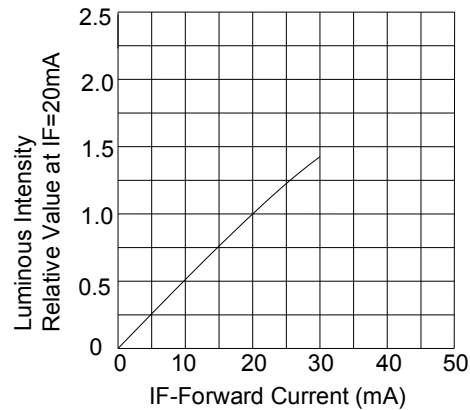


Fig.3 正向电流 Vs. 环境温度

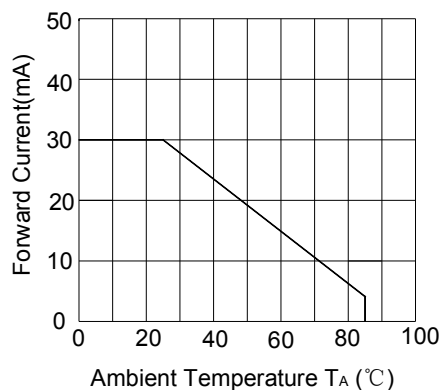


Fig.4 相对亮度 Vs. 环境温度

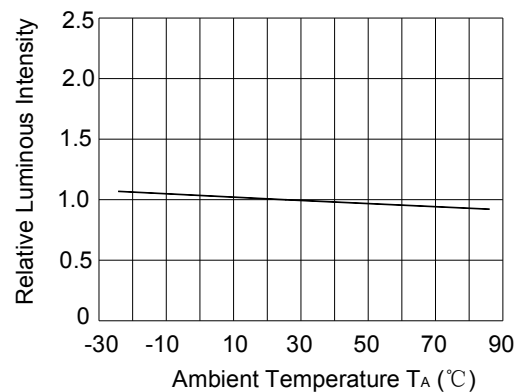
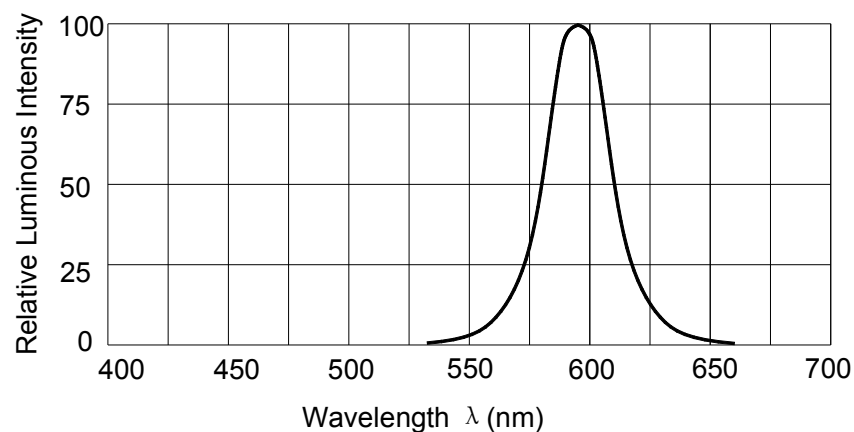


Fig.5 相对亮度 Vs. 波长



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➤ Label Form Specification/标签格式规范



The label form includes the Sunpu logo, a QR code, and the following fields:

- No.:
- P/N:
- IV code:
- VF code:
- λ /Tc code:
- IF: mA
- Lot No.:
- Cus No.:
- IV:
- VF:
- λ /Tc:
- Q'ty:
- Date:
- QC:
- RoHS

No: 产品品号	IV: 光通量/发光强度
P/N: 产品品名	VF: 电压档位
IV code: 光通量/发光强度代码	λ /Tc: 波长/色系档位
VF code: 电压代码	Q'ty: 包装数量
λ /Tc code: 波长/色系代码	Date: 标签打印日期
IF: 测试电流	QC: 检验合格章
Lot No: 生产批号	
Cus No: 客户料号	

➤ Lead Forming/成形

1. Any lead forming or bending must be done before soldering.

支架成形必须在焊接前完成。

2. When forming leads, there must be a minimum of 2mm clearance between the base of the LED lens and the lead bend.

必需离胶体 2 毫米才能折弯支架。

3. Avoid bending the leads at the same point more than once.

避免在管脚同一位置两次或多次弯。

4. During assembly onto PCB, the lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement.

支架成形需保证引脚和间距与线路板上一致。

➤ Soldering Condition/焊接条件

Careful attention should be paid during soldering. When soldering, leave more than 2mm from solder joint to case, and soldering beyond the base of the tie bar is recommended.

焊接时请特别注意，焊接点要离LED封装体底部2mm以上。

Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly

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when soldering.

在 LED 处于高温，特别是在焊接时，请避免对支架施压。

Recommended soldering conditions/推荐焊接条件:

Hand Soldering 手工焊接		DIP Soldering 浸焊	
Temp.at tip of iron 电烙铁温度	300℃ Max.(30WMax.) 最高温度300℃（功率不超过30瓦）	Preheat temp. 预热温度	100℃ Max. (60 sec Max.) 最高温度100℃（不超过60秒）
Soldering time 焊接时间	3 sec Max. 时间不超过3秒	Bath temp. 浸焊温度	260℃ Max 最高260℃.
Distance 焊接位置	2mm Min.(From solder joint to case) 大于2毫米（从焊点到胶体）	Bath time. 浸焊时间	3 sec Max. 不超过3秒
		Distance 浸焊位置	2mm Min 大于2毫米.

➤ Cleaning/清洗

1. Do not clean LEDs with water, Alcohol are recommended solvents for cleaning. When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the resin or not.

不要用水清洗，推荐使用酒精清洗，当使用其他溶剂清洗时应事先确认该溶剂是否溶解树脂。

2. LEDs may be damaged by ultrasonic-washed. Before cleaning, a pre-test should be done to confirm whether any damage to the LEDs will occur.

LED有可能在超声波清洗过程中被破坏。为了保证安全，在清洗前，请先确认。

➤ Storage/保存

1. Environmental temperature: -40℃---100℃, Recommended: -20℃---50℃

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环境温度: -40℃---100℃, 推荐使用-20℃---50℃;

2. Environmental humidity: 30%---70%, Recommended: 40%---60%

环境湿度: 30%---70%, 推荐使用40%---60%;

➤ Static Electricity/静电

1. Static Electricity or power surge will damage the LED.

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

静电或激增电压将损害 LED。

建议使用发光二极管时佩戴手腕带或防静电手套。

2. All production machinery and test instruments must be electrically grounded.

所有的生产机器和检测仪器, 必须接地。

3. Maintain a humidity level of 50% or higher in production areas.

生产现场湿度必须保持在50%或者更高。

➤ Notes/备注

1. This datasheet will be update regularly, if there comes out any changes, pls confirmed by the latest datasheet.

以上规格书会定期进行更新, 如有改动,以最新规格书为准。

2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. SUNPU assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.

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在使用本产品时，请注意参考规格书中的最大额定值和使用说明，如果没有遵照产品规格书中的最大额定值以及使用说明而产生的不良后果，不在升谱承诺范围之内。