

XL-A324SURUGW F3红翠绿雾状共阴

技术数据表 Technical Data Sheet

特点 (characteristic):

* 外观尺寸(L/W/H):F3/3.8*3.0*5.2*28mm

Appearance dimension (L / w / h): F3/3.8*3.0*5.2*28mm

* 发光颜色及胶体: 高亮度红翠绿双色/雾状胶体

Luminous color and colloid: high brightness red, green / Aerosol colloid

* 环保产品,符合ROHS要求

Environmental protection products meet ROHS requirements

* 湿气敏感性等级(MSL):4-5级

Moisture sensitivity level (MSL) : 4-5 levels

* EIA规范标准包装

EIA standard packaging

* 使用寿命长

Long operating life

* 降低维护成本

Reduced maintenance costs

* 高能效、启动快

High energy efficiency, fast startup

* 低电压直流驱动

Low voltage DC drive

应用领域(product application):

* 背光模组应用

Backlight module application;

* 汽车内饰应用

Automotive Interior Applications;

* 信号指示应用

Signal indication application;

* 智能家居应用

Smart Home Applications;

* 一般照明应用

General lighting applications

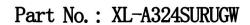










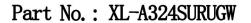




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电性参数

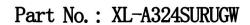
Electrical Characteristics

极限参数(Absolute Maximum Ratings)(Ta=25°C)

项目参数Parameter	符号 Symbol	红光 Red	翠绿 Green	单位 Unit
最大功耗(Max Power Dissipation)	PD	50	70	mW
最大正向电流(Max Continuous Forward Current)	IF	20	20	mA
最大脉冲峰值电流(Peak Forward Current)	IFP	80	80	mA
工作环境(Operating Temperature Range)	TOPR	-20 ~ +	85°C	$^{\circ}$
储存温度(Storage Temperature Range)	TSTR	-40 ~ +	85°C	$^{\circ}$ C
焊接温度/时间 (Lead Soldering Temperature/Time)	TSOL	波峰焊(reflow soldering): 240°C, ≦6s 手动焊(manual welding): 300°C, 3s 焊接点离胶体底部在3.5mm以上		

光电参数(Initial Electrical Optical Characteristics)(Ta=25°C)

项目参数Parameter	符号 Symbol	颜色 color	最小值 Min.	一般值 Typ.	最大值 Max.	单位 Unit	测试条件 Test conditions
发光强度	Iv	RED	500	/	700	mcd	IF=20mA
(Luminous Intensity)	1 V	G	2000	/	4000	ilicu	1F-20IIIA
主波长) d	RED	620	/	625	10 m	IF=20mA
(Dominant Wave Length)	λd	G	520	/	530	nm	1F-20MA
峰值波长	λр	RED	/	638	/	nm	IF=20mA
(Peak Wave Length)	лр	G	/	525	/	11111	11-20IIA
正向电压	VF	RED	2.0	/	2.4	V	IF=20mA
(Forward Voltage)	V 1.	G	3.2	/	3.6	,	11'-20llA
发光角度	201/2	RED&G	/	30	/	deg	IF=20mA
(Viewing Angle)	201/2	ILLD & 0	,		,	408	11 201111
反向电流	TR	RED	/	/	≤10	μА	VR=5V
(Reverse Current)	IR	G	/	/	≤10	μА	V IV-9 V





亮度分档:

Brightness grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
A6	500	700		
B2	1800	2100		
В3	2100	2500	mcd	IF=20mA
B4	2500	3000		
B5	3000	3500		
В6	3500	4000		

电压分档:

Voltage grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
N12-8	2.0	2.2		
N12-9	2.2	2.4		
N13-3	2.8	3.0	V	IF=20mA
N13-4	3.0	3.2		
N13-5	3.2	3.4		
N13-6	3.4	3.6		

波长分档:

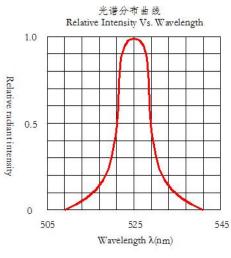
Wavelength grading:

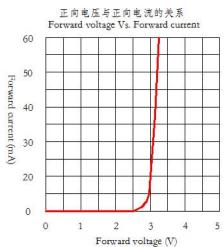
代码 Code	最小值 Min	最大值	单位 Unit	测试条件
Code	IVIII	Max	Unit	Test conditions
HG03	520	525		
HG04	525	530	nm	IF=20mA
HR03	625	630		II'-ZUIIA
HR04	630	635		
HR05	635	640		

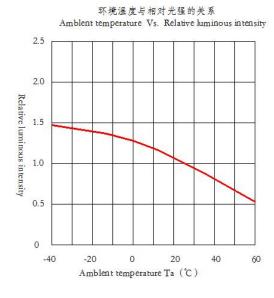


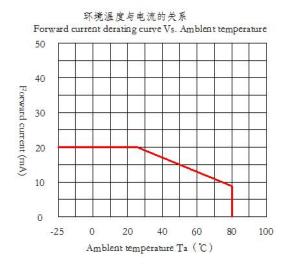
典型特性曲线

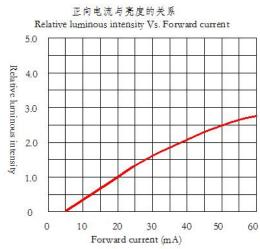
Typical Characteristics Curves

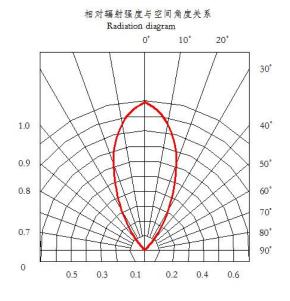




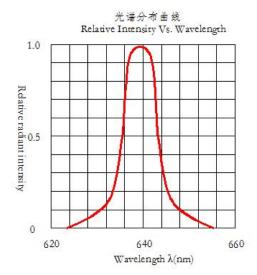


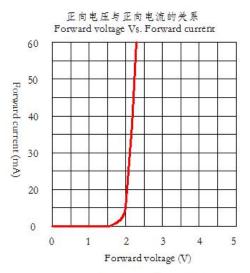


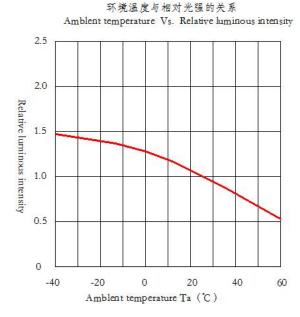


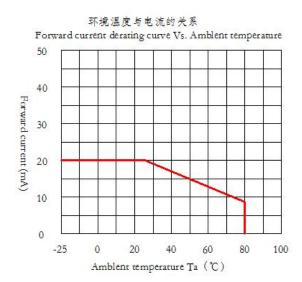


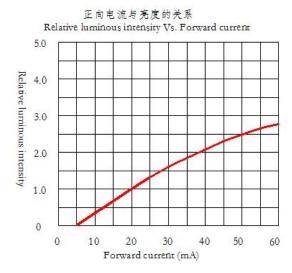


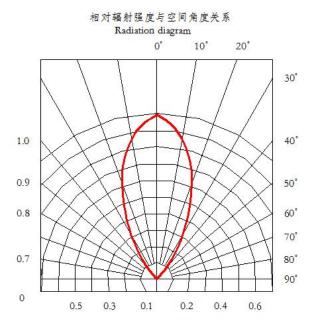








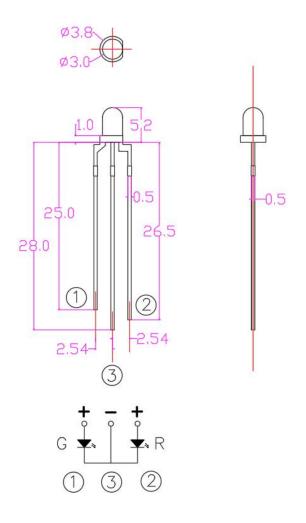






外形尺寸

Outline Dimension



备注(Note):

1. 标注尺寸单位为毫米

Dimensions are in millimeters.

2. 除特别标注外,所有尺寸允许公差±0.10mm.

Tolerances unless mentioned are ± 0.10 mm.

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包装

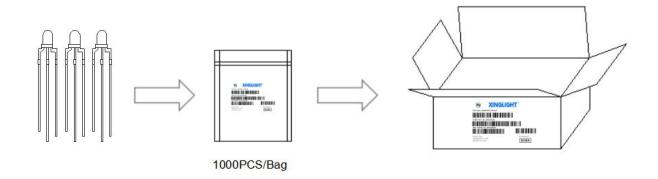
Packaging

*袋装

In Bags

*防潮抗静电包装

Moisture Proof and Anti-Electrostatic Foil Bag



◇ 标签说明: Label Explantion

LOT NO: 批次信息 PART NO: 产品型号

BIN CODE: 产品名称

WL: 波长范围 IV: 光强范围 VF: 电压范围





使用注意事项(1)

Precautions (1)

1. 应用 APPLY

此LED可使用于一些普通的电子设备,例如办公设备,通信设备、房屋装饰,若LED用在一些可靠性要求较高的情况下,如航空运输,交通控制及医辽器械时,一定需参考销售提供之资料进行使用。

This LED can be used in some ordinary electronic equipment, such as office equipment, communication equipment, house decoration, if LED is used in some high reliability requirements, such as air transportation, traffic control and medical liao equipment, must refer to the information provided by sales.

2. 储存 Keep in storage

贮存LED的环境,温度不超过30℃,相对湿度不超过70%。 建议LED在原包装箱里日期不超过三个月 进行使用,如果需加长贮存时间,建议放在干燥箱内,并加放干燥剂, 或者充入氮气。

Storage environment of LED with temperature not exceeding 30°C and relative humidity not exceeding 70%. It is recommended that LDE be used in the original box for no more than three months. If longer storage time is required, put it in the drying box and add desiccant or filled with nitrogen.

3. 清洗 Clean

当用化学品清洗胶体时必须特别小心,因为有些化学品对胶体表面有损伤并引起褪色如三氯乙烯、丙、酮等。可用乙醇擦拭、浸渍,时间在常温下不超过3分钟。

Special care must be taken when cleaning colloids with chemicals, as some chemicals have damage to the colloidal surface and cause fading such as trichloroethylene, propylene, ketone, etc.It can be wiped and soaked with ethanol for no more than 3 minutes at room temperature.

4. 引脚配置 Feet assembly

(1) 必需离胶体2毫米才能折弯支架。

It must be 2 mm from the colloid to bend the bracket.

(2) 支架成形必须用夹具或由专业人员来完成。

Support forming must be done with fixtures or by a professional.

(3) 支架成形必须在焊接前完成。

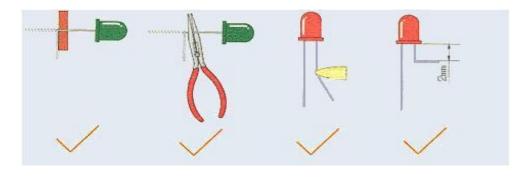
Support forming must be completed before welding.

(4) 支架成形需保证引脚和间距与线路板上一致。

The pins and spacing are the same as on the circuit board.

(5) 焊接必须在正常温度下进行,当LED正常焊接到PCB板上后,应尽量避免在LED引脚处施加机械压力。

Welding must be performed at normal temperature and when LED is normally welded to the PCB plate, avoid applying mechanical pressure at LED pins at a minimum.





使用注意事项(2)

Precautions (2)

5. 焊接 Weld

当焊接时,必需在胶体底部2mm以下进行焊接,在焊接时,应尽力避免浸渍LED胶体,在刚焊接完后,应避免在引脚上加外力或者摇动LED胶体。

When welding, welding must be conducted below 2mm of colloid bottom. When welding, try to avoid soaking LED colloid. After welding, avoid adding external force on the pin or shaking LED colloid.

推荐的焊接条件

烙铁焊接		波峰焊接	
焊接温度Soldering Temperature	300℃ Max	预热Pre - heat 预热时间Pre- heat time	100℃ Max 60sec.Max
焊接时间Soldering time	3 sec.Max	焊接温度Soldering Temperature 焊接时间Soldering time	240℃.Max 6sec.max

过高的焊接温度和长时间的焊接会导致LED变形和失效

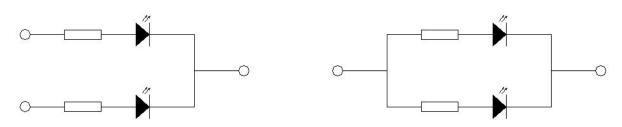
Excessive welding temperature and prolonged welding can lead to LED deformation and failure.

6. 驱动方式 Drive way

LED的当前驱动方式,若LED为多颗并联时,建议采用线路A,在每颗LED,处加一限流电阻,以保证LED 之亮度一致。

In the current driving mode of LED, if LED is multiple in parallel, it is recommended to use line A and add a flow limit resistance to each LED to ensure the consistent brightness of LED.

Circuit model A Circuit model B



7. 静电防护 Electrostatic protection

静电和电流的急剧升高将会对LED产生损害,InGaN系列产品使用时请使用防静电装置,如防护带和手套注意:使用时人体放电模式HBM<1000V;机器放电模式<100V。

High increase of static electricity and current will damage LED. Use antistatic devices such as protective belts and gloves. Note: human discharge mode HBM <1000V; machine discharge mode <100V.



使用注意事项(3)

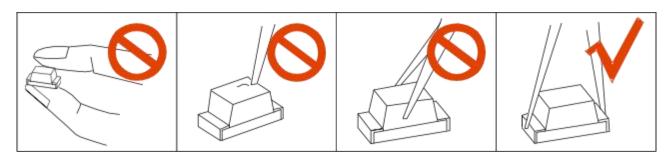
Precautions (3)

4、其他事项:

Others:

*直接用手拿取产品不但会污染封装树脂表面,也可能由于静电等因素导致产品性能的改变。过度的压力也可能直接影响封装内部的管芯和金线,因此请勿对产品施加过度压力,特别当产品处于高温状态下,例如 在回流焊接过程中。

*When handling the product, touching the encapsulant with bare hands will not only contaminate its surface, but also affect on its optical characteristics. Excessive force to the encapsulant might result in catastrophic failure of the LEDs due to die breakage or wire deformation. For this reason, please do not put excessive stress on LEDs, especially when the LEDs are heated such as during Reflow Soldering.



*LED 的环氧树脂封装部分相当脆弱,请勿用坚硬、尖锐的物体刮、擦封装树脂部分。在用镊子夹取的时候也应当小心注意。

*The epoxy resin of encapsulant is fragile, so please avoid scratch or friction over the epoxy resin surface. While handling the product with tweezers, do not hold by the epoxy resin, be careful.

5、眼睛保护忠告:

Safety Advice For Human Eyes

*LED 发光时,请勿直视发光光源,特别是对于一些光强较高的 LED,强光可能伤害你的眼睛。

*Viewing direct to the light emitting center of the LEDs, especially those of great Luminous Intensity, will cause great hazard to human eyes. Please be careful.