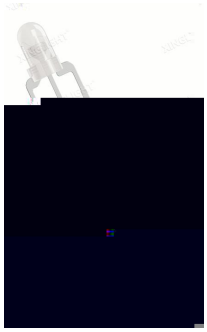
XL-A324SURSYGW F3 技术数据表 Technical Data Sheet

特点（characteristic）：



* L/W/H :F3/3.8*3.0*5.2*28mm

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

* : /

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

* ROHS

Environmental protection products meet ROHS requirements

* MSL :2

Moisture sensitivity level MSL : 2 levels

* EIA

EIA standard packaging

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Long operating life

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Reduced maintenance costs

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High energy efficiency, fast startup

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Low voltage DC drive

应用领域（product application）：

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Backlight module application;

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Automotive Interior Applications;

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Signal indication application;

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Smart Home Applications ;

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General lighting applications

目录

Catalogue

电性参数

Electrical Characteristics

Absolute Maximum Ratings Ta=25

Parameter	Symbol	Red	YG	Unit
Max Power Dissipation	PD	50	50	mW
Max Continuous Forward Current	IF	20	20	mA
Peak Forward Current	IFP	80	80	mA
Operating Temperature Range	TOPR	-20 ~ +85 C		
Storage Temperature Range	TSTR	-40 ~ +85 C		
/ Lead Soldering Temperature/Time	TSOL	reflow soldering 240ÁC 6s manual welding 300ÁC 3s 2.0mm		

Initial Electrical Optical Characteristics Ta=25

Parameter	Symbol	

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
A1	50	100	mcd	IF=20mA
A2	100	200		
A5	400	500		
A6	700	900		

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
N12-7	1.8	2.0	V	IF=20mA
N12-8	2.0	2.2		
N12-9	2.2	2.4		
N13-1	2.4	2.6		

[redacted]

Wavelength grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	[redacted] Test conditions
HR04	630	635	nm	IF=20mA
HR05	635	640		
HYG03	565	567.5		
HYG04	567.5	570		
HYG05	570	572.5		
HYG06	572.5	575		

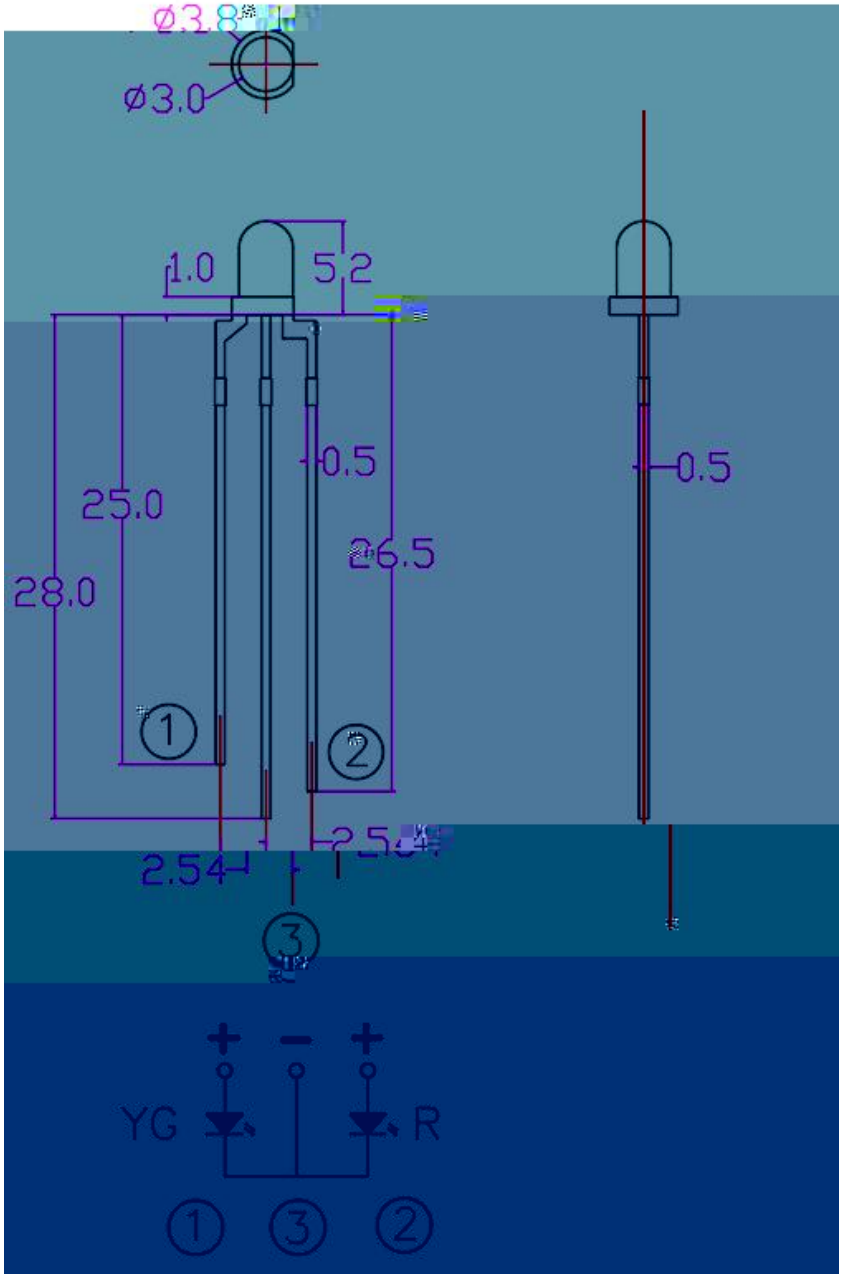
可靠性试验

Reliability Test Items And Conditions

Class	Test item	Testing environment	Testing time	Qty	Fail qty
Endurance test	Working life	Ta=25 ±5 ,IF=20mA	1000hrs	22 PCS	0/1
	High temperature and high humidity experiment	Ta= 85±5 , RH= 85 90%	1000hrs	22 PCS	0/1
	High-temperature storage	Ta= 85±5	1000hrs	22 PCS	0/1
	Low temperature storage	Ta= -40±5	1000hrs	22 PCS	0/1
Environmental testing	Cold and hot cycle	100 ±5 30mins 5mins -40 ±5 30mins	100 Circles	22 PCS	0/1
	Hot and cold impact	105 ±5 5mins -45 ±5 5mins	100 Circles	22 PCS	0/1
Mechanical Test	Resistance to Soldering Heat	T.sol= 250 ± 5	2times	22 PCS	0/1
	Lead Integrity	Load 2.5N(0.25kgf) 0°~ 90° ~0°	3times	22 PCS	0/1

外形尺寸

Outline Dimension



(Note)

1.

Dimensions are in millimeters.

2. Ñ 0.50mm .

Tolerances unless mentioned are Ñ 0.50mm.

包装

Packaging

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In Bags

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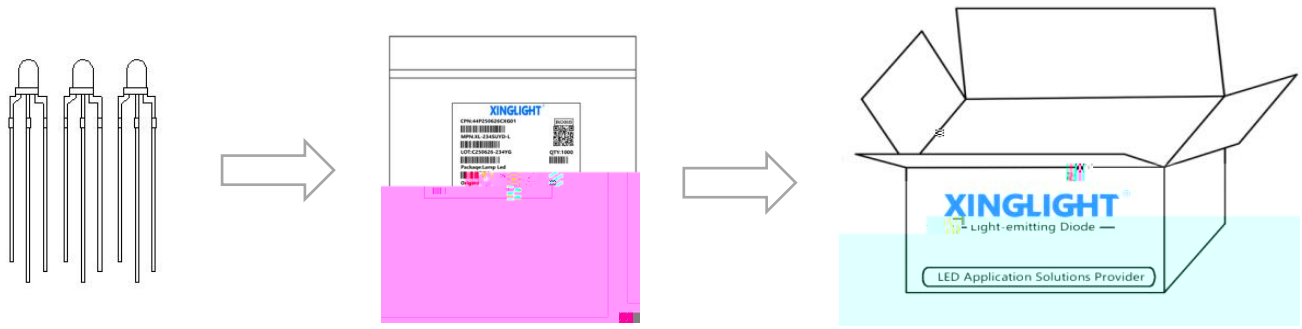
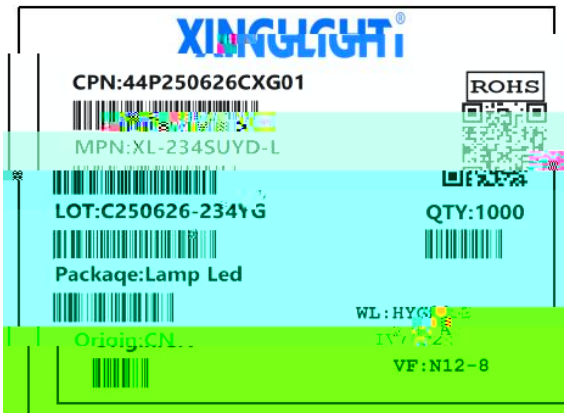
Moisture Proof and Anti-Electrostatic Foil Bag





使用注意事项（1）

Precautions (1)

1. **APPLY**

使用注意事项（2）

Precautions (2)

5. Weld

2mm LED
LED

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.

6. Drive way

LED LED A LED LED

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. ElectrostE

使用注意事项（3）

Precautions (3)

其他

Others

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

*LED

*The epoxy resin of encapsulant is fragile, so pleas