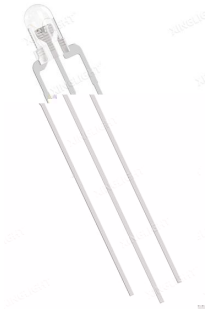
XL-B324SURSYGC F3 技术数据表 **Technical Data Sheet**

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 / water l colloid

* ROHS

Environmental protection products meet ROHS requirements

* MSL :2

Moisture sensitivity level MSL : 2 levels

* EIA

EIA standard packaging

*

Long operating life

*

Reduced maintenance costs

*

High energy efficiency, fast startup

*

Low voltage DC drive

product application）：

*

Backlight module application;

*

Automotive Interior Applications;

*

Signal indication application;

*

Smart Home Applications ;

*

General lighting applications

目录
Catalogue

Electrical Characteristics.....3

Typical Characteristic Curves.....5

Reliability Test Items And Conditions.....6

utline imensions..... .....

ackaging..... .....

recautions..... 9

电性参数

Electrical Characteristics

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	100	200	mcd	IF=20mA
A5	400	500		
A6	500	700		

电压分档:
Voltage grading:

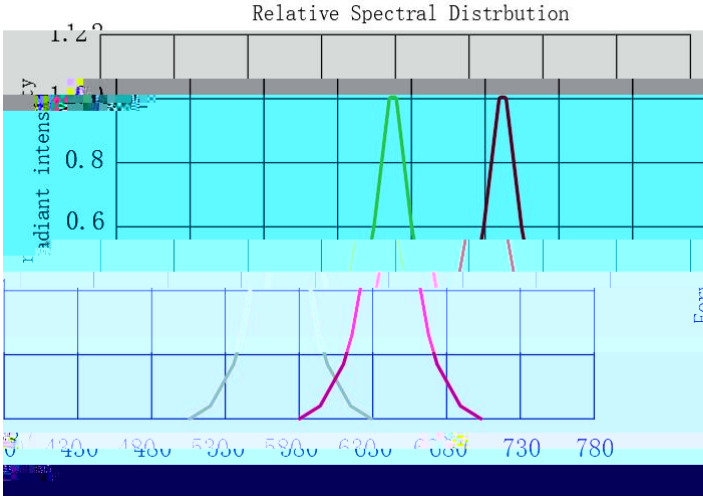
代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
N12-7	1.8	2.0	V	IF=20mA
N12-8	2.0	2.2		
N12-9	2.2	2.4		
N13-1	2.4	2.6		

波长分档:
Wavelength grading:

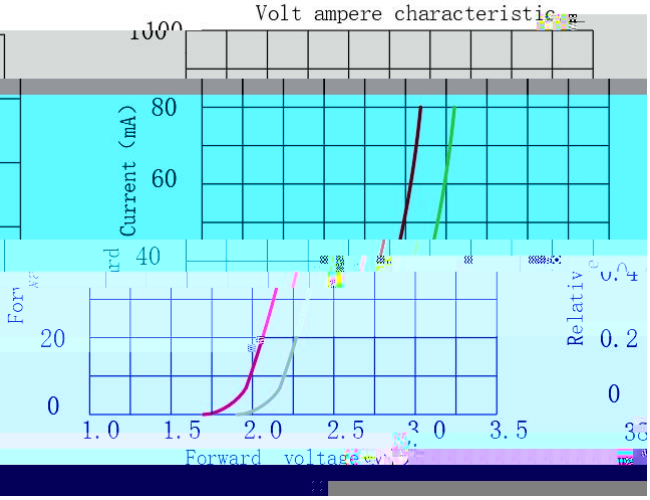
代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
HR04	630	635	nm	IF=20mA
HR05	635	640		
HYG03	565	567.5		
HYG04	567.5	570		
HYG05	570	572.5		
HYG06	572.5	575		

Typical Characteristics Curves

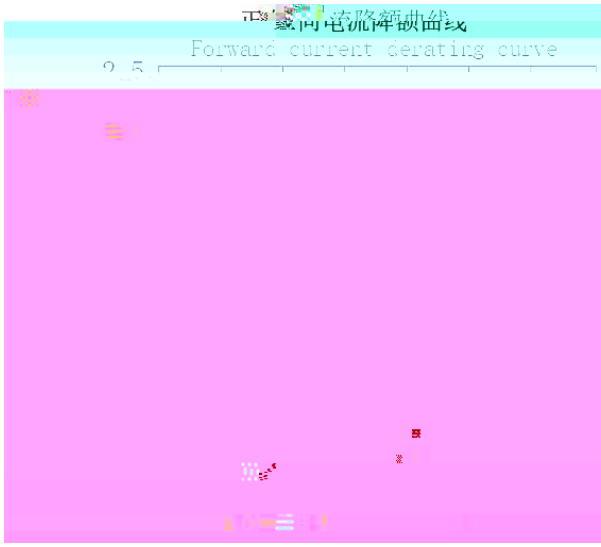
光谱分布曲线
Relative Spectral Distrbution



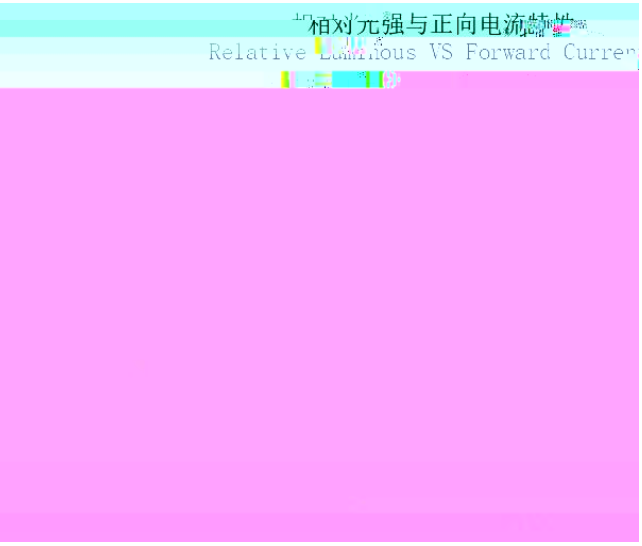
伏安特性
Volt ampere characteristic



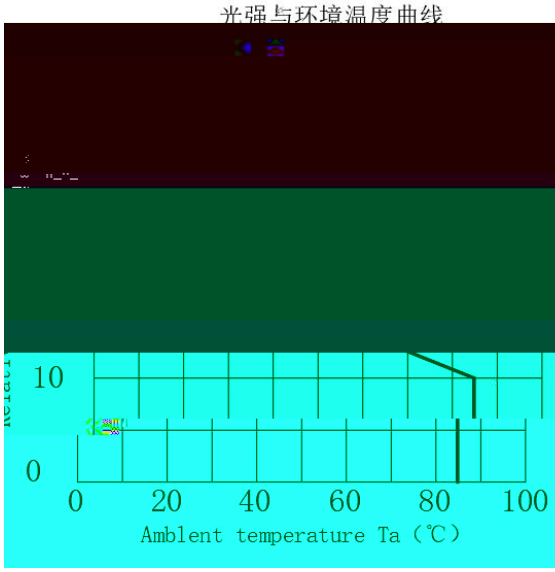
正向电流降额曲线
Forward current derating curve



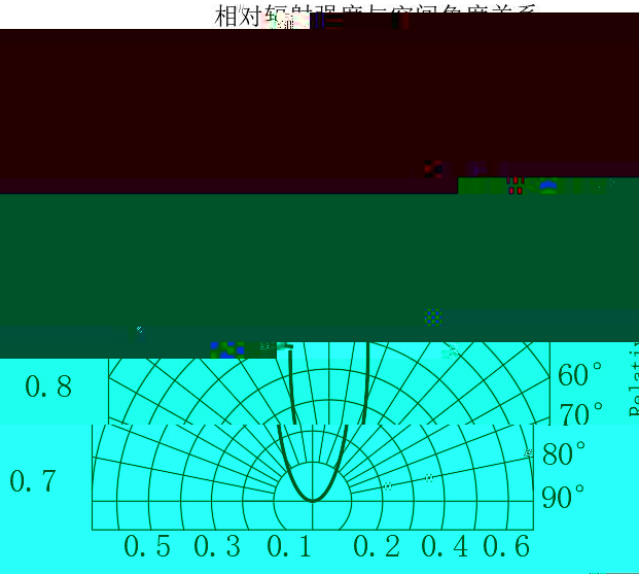
相对光强与正向电流特性
Relative Luminous VS Forward Current



光强与环境温度曲线



相对辐射强度与空间角度关系



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

包装

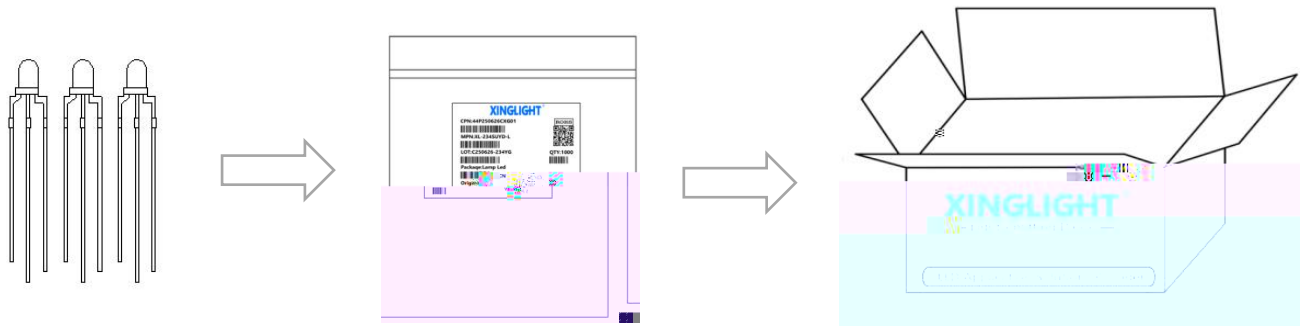
Packaging

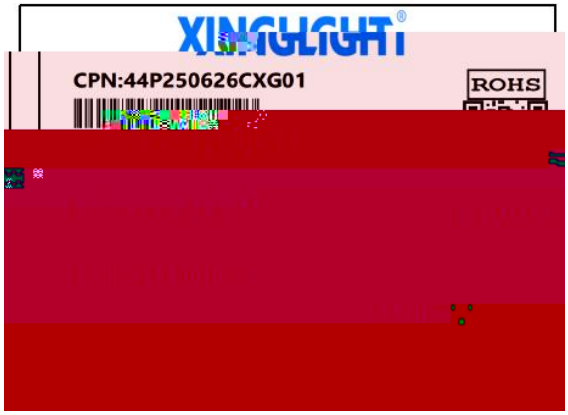
*

In Bags

*

Moisture Proof and Anti-Electrostatic Foil Bag





使用注意事项（1）

Precautions (1)

1. **APPLY**

LED LED

This LED can be used in some ordinary electronic equipment, such as office equipment, communication equipment, house decoration, if LED is used in some h

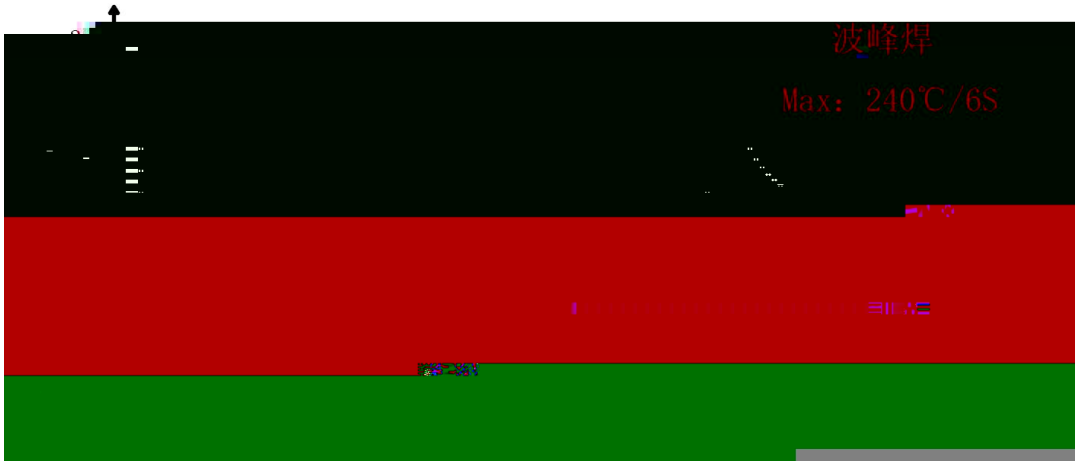
使用注意事项（2）

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.

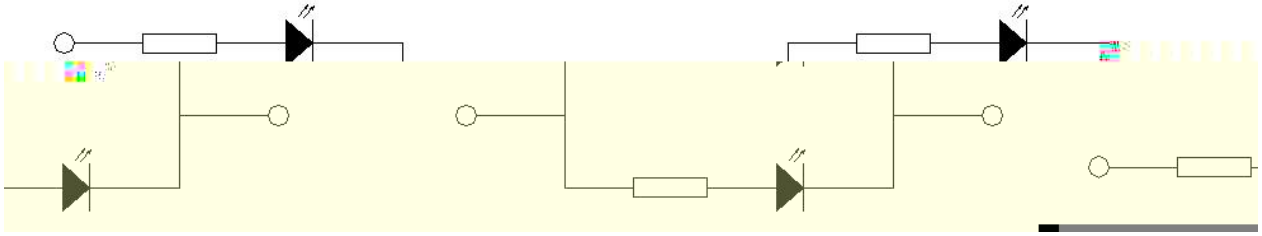


6. Drive way

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. Electrostatic protection

LED InGaN
HBM<1000V <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