XL-A524SURSYGC F5

[redacted] Technical Data Sheet

特点（characteristic）：

* L/W/H :F5/5.8*5.0*8.7*28mm

Appearance dimension (L / w / h): F5/5.8*5.0*8.7*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

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Long operating life

*

Reduced maintenance costs

*

High energy efficiency, fast startup

*

Low voltage DC drive

[redacted]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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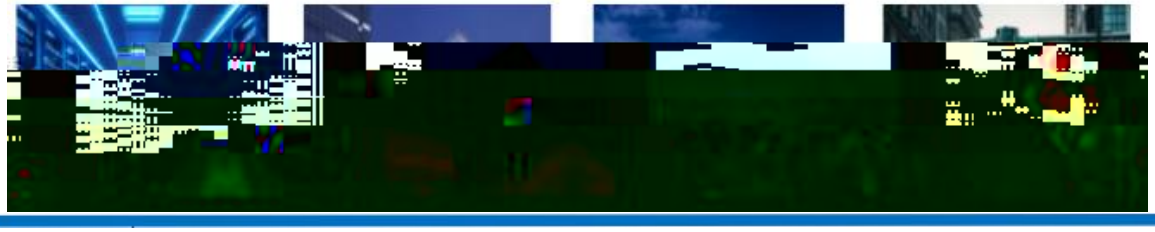
General lighting applications



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电性参数

Electrical Characteristics

Absolute Maximum Ratings Ta=25

Parameter	Symbol	Red	YG	Unit
Max Power Dissipation	PD	50	70	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	color	Min.	Typ.	Max.	Unit	Test conditions
Luminous Intensity	Iv	R	400	/	700	mcd	IF=20mA
		YG	50	/	300		
Dominant Wave Length	∂d	R	630	/	640	nm	IF=20mA
		YG	565	/	575		
Peak Wave Length	∂p	R	/	640	/	nm	IF=20mA
		YG	/	570	/		
Forward Voltage	VF	R	1.8	/	2.4	V	IF=20mA
		YG	1.8	/	2.6		
Viewing Angle	2Ï1/2	R YG	/	30	/	deg	IF=20mA
Reverse Current	IR	R	/	/	Ò10	εA	VR=5V
		YG	/	/	Ò10		

±10% ±0.1V (X,Y) ±0.01 ±1nm

Note: the light intensity error is 10%; The pressure drop error is ±0.1V ; (X,Y) coordinate deviation ±0.01 wavelength error ±1 nm.

亮度分档:

Brightness grading:

[redacted]

Voltage grading:

波长分档:

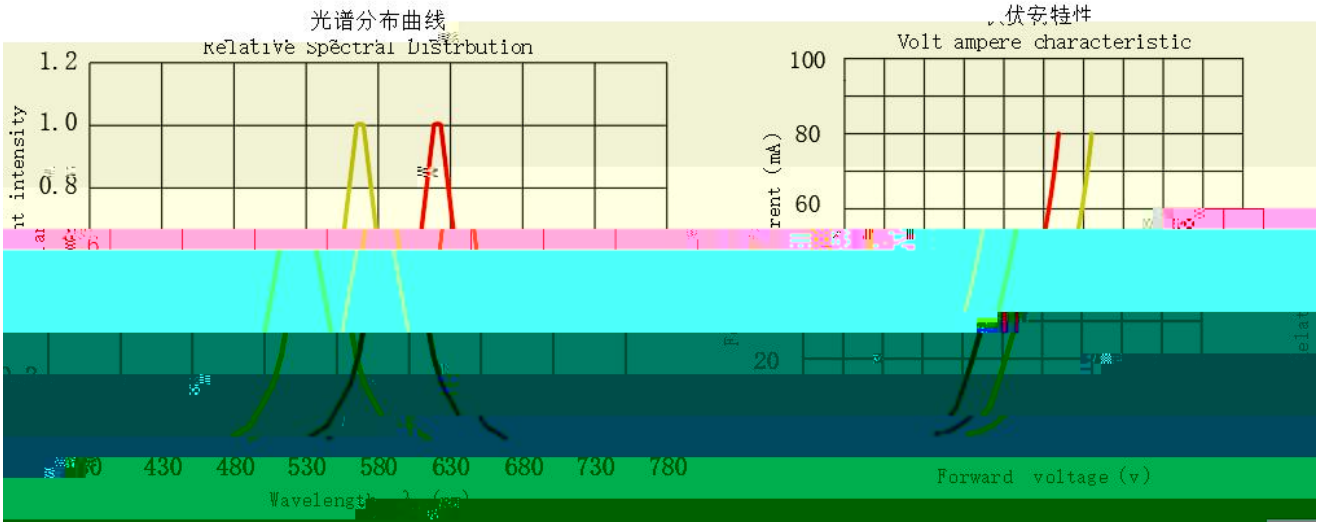
Wavelength grading:

典型特性曲线

Typical Characteristics Curves

光谱分布曲线

Relative Spectral Distribution

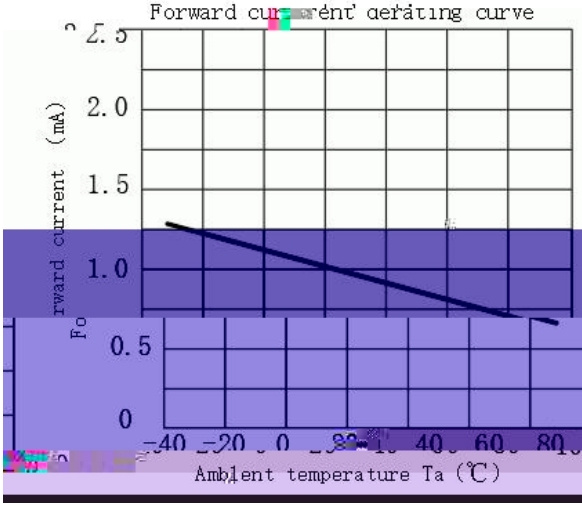


伏安特性

Volt ampere characteristic

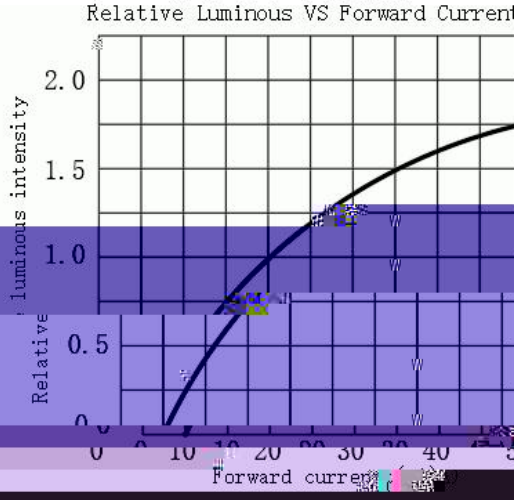
正向电流降额曲线

Forward current derating curve

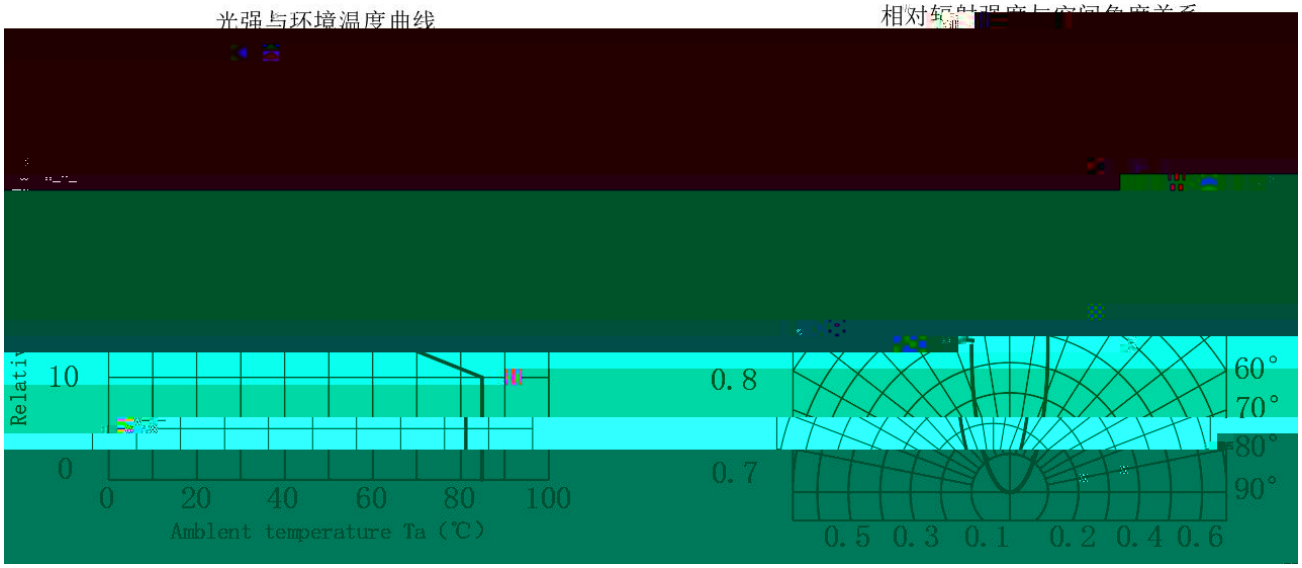


相对光强与正向电流特性

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
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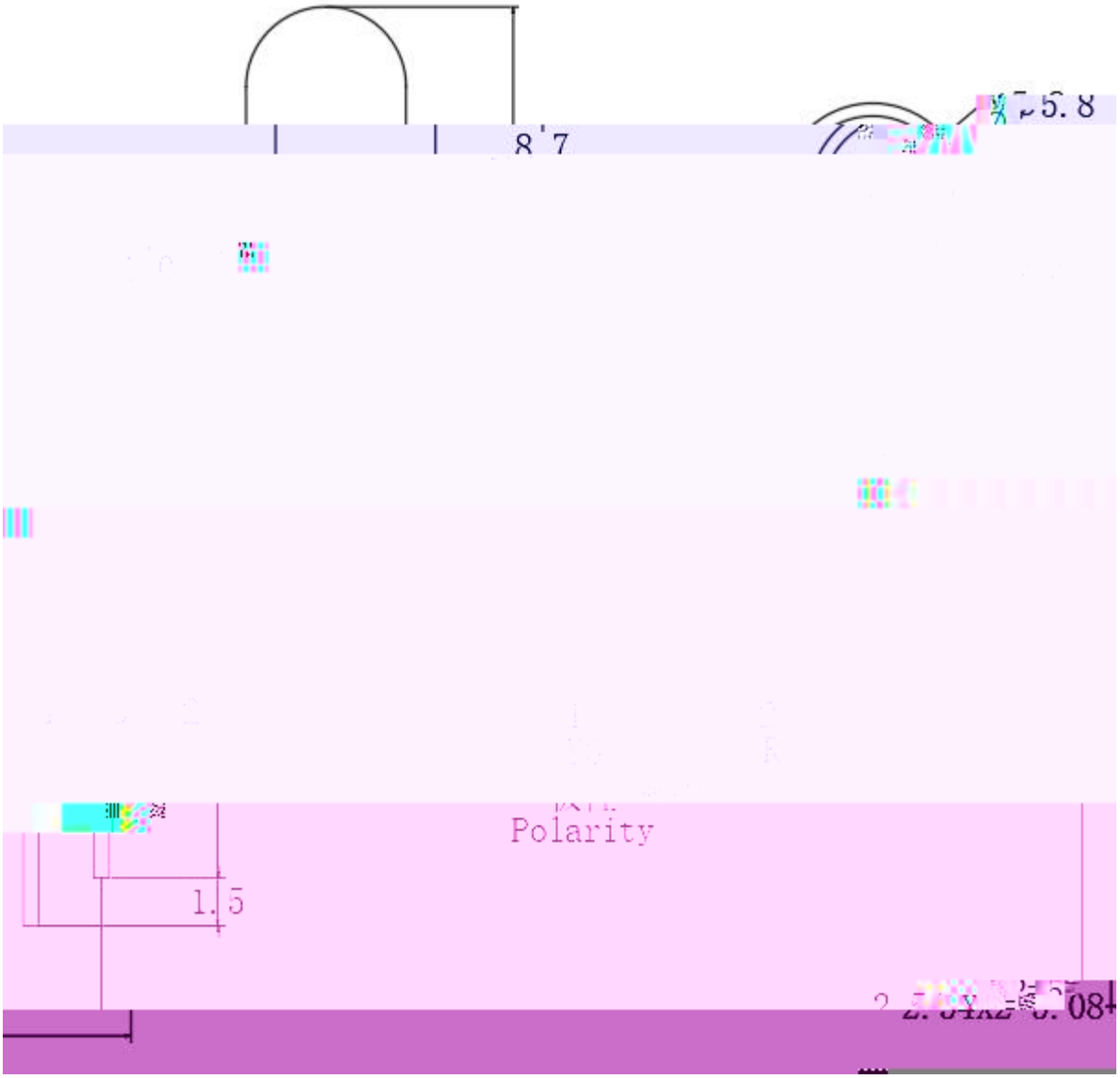
外形尺寸

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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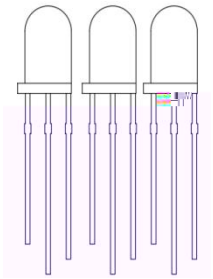
Moisture Proof and Anti-Electrostatic Foil Bag



使用注意事项（1）

Precautions (1)

1. **APPLY**

使用注意事项（3）

Precautions (3)

4、其他事项：

Others

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*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 encapsulant.