目录
Catalogue

Electrical Characteristics.....3

Typical Characteristic Curves.....5

Reliability Test Items And Conditions.....6

Outline Dimensions.....7

Packaging.....8

Precautions.....9

电性参数

Electrical Characteristics

ǎ ^ Absolute Maximum Ratings˜ ^ Ta=25 ˜

ǎ Parameter	Symbol	Red	Green	Unit
w ^ Max Power Dissipation˜	PD	50	70	mW
h ^ Max Continuous Forward Current˜	IF	20	20	mA
ll y ^ Peak Forward Current˜	IFP	80	80	mA
ƀ ^ Operating Temperature Range˜	TOPR	-20 ~ +85 C		Ņ
Ũ ^ Storage Temperature Range˜	TSTR	-40 ~ +85 C		Ņ
/ ^ Lead Soldering Temperature/Time˜	TSOL	^ reflow soldering˜ ' 240°C˜ v 6s ¬ ^ manual welding ˜ ' 300°C˜ 3s r ضي2.0mm ؛		

ѽ ǎ Initial Electrical Optical Characteristics ^ Ta=25 ˜

ǎ Parameter	Symbol	color	y Min.	W y Typ.	y Max.	Unit	Ð Test conditions
Ü ѽ ^ Luminous Intensity˜	Iv	R G	400 80	/	700	mcd	IF=20mA

亮度分档:

Brightness grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	[redacted]
A5	400	500	mcd	I
A6	500	700		
C1	8000	10000		
C2	10000	12000		
C3	12000	14000		

电压分档:

Voltage grading:

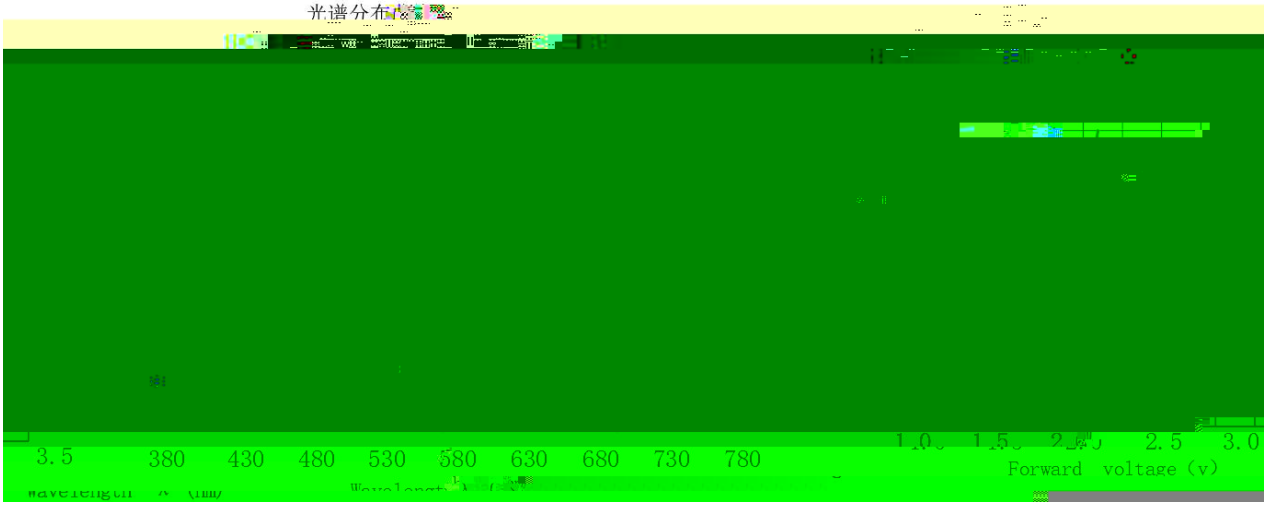
代码 Code	最小值 Min	最大值 Max	单位 Unit	Tes
N12-7	1.8	2.0	V	I
N12-8	2.0	2.2		
N12-9	2.2	2.4		
N13-3	2.8	3.0		
N13-4	3.0	3.2		
N13-5	3.2	3.4		

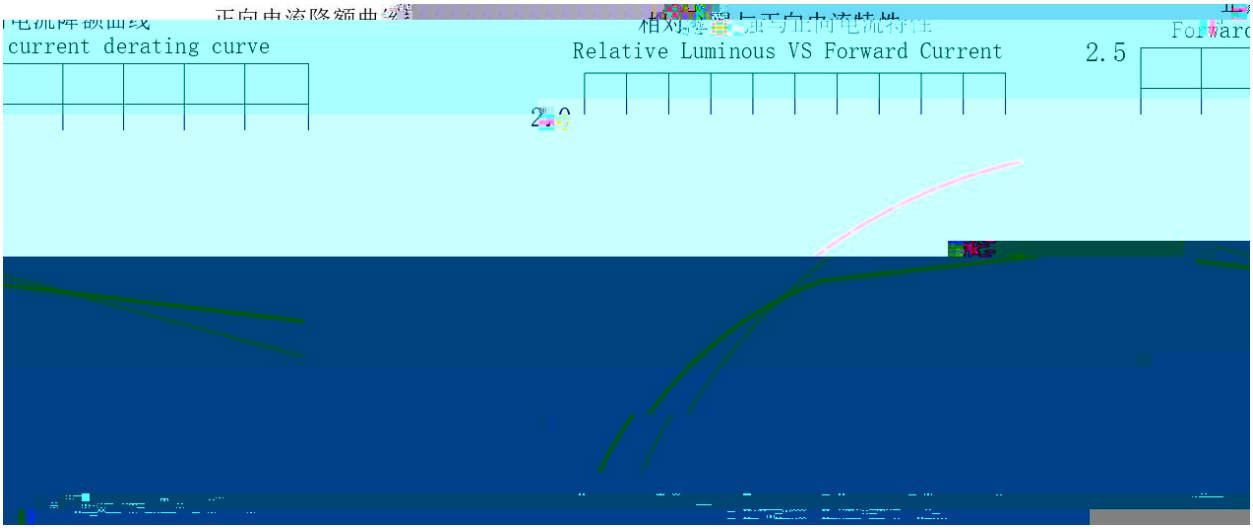
波长分档:

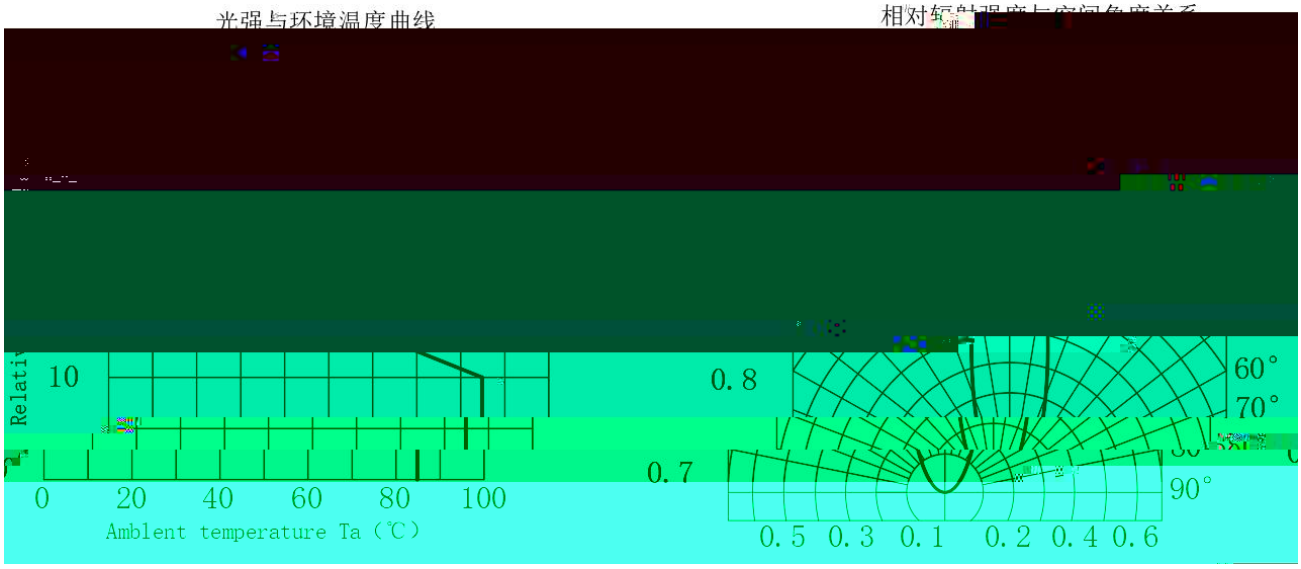
[redacted] **grading:**

典型特性曲线

Typical Characteristics Curves







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. ㄟ β ч

包装

Packaging

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In Bags

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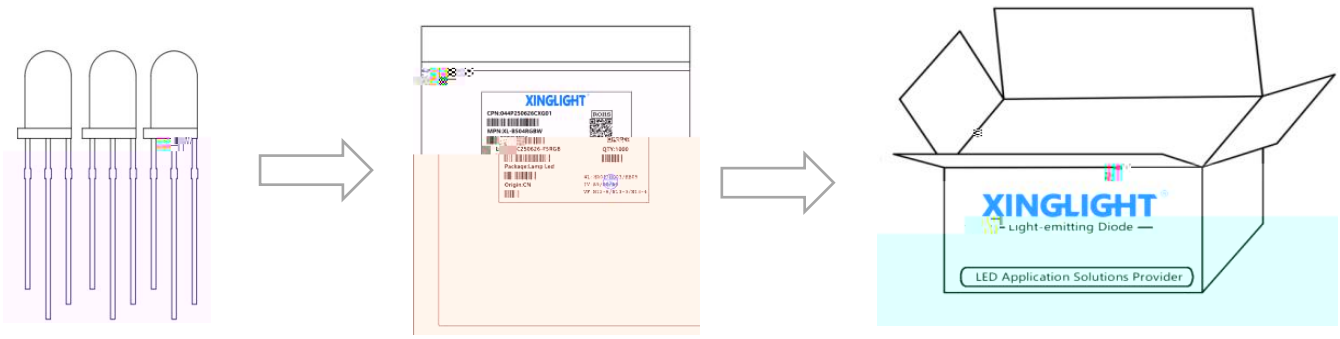
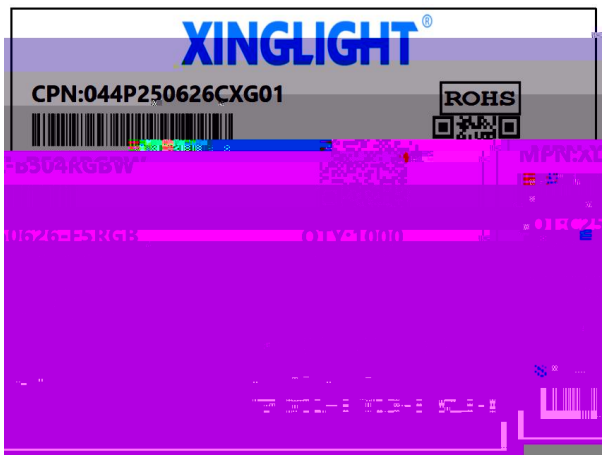
Moisture Proof and Anti-Electrostatic Foil Bag





使用注意事項（1）

Precautions (1)

1. **APPLY**

LED ą ɢ ŵ ˘ ᵖ W˙E ˘ FJ Ḥ à ˘ LED ض ŵ ˆ
' Ǐ˘ ˘ ˊ Ĺ ǐ ʏ ح ˘ ŵ ǎ ف ʟ ʜ ą Â

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. Ũ **Keep in storage**

ideX

使用注意事项（2）

Precautions (2)

5. Weld

ˇ ضي r 2mm γ Йį ˇ ضي ˇ ʒ ѽ LED r ˇ ضي ↕ Uˇ ѽ ضي ⁘ ∀ ʒ ¬ LED r Â

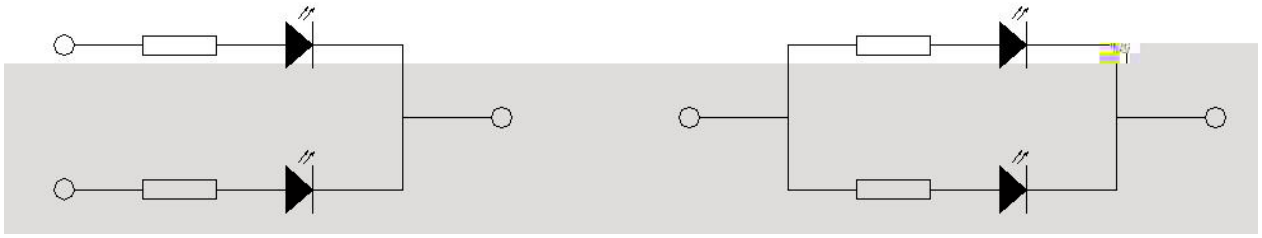
When welding, welding must be conducted below 2mm of colloid bottom. When welding, try to avoid soaking LED colloid. After welding, avoid adding external force on the pin or shaking LED colloid.

6. ¬ Drive way

LED ╠ ¬ ˇ LED ч ˇ Aˇ ضي LEDˇ ∀ ѿ ˇ γ Ḡ LED Ҥ ѿ Â

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

Ė ▲ ٦ Ψ LEDً ˇ InGaN ↓ً ҷ ą ą ˇ Ė ą ¬ r HBM<1000V' ҁ <100V Â

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:

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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 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 № ˇ ~ ﻁ à ᵣ ⌂ à №Â ﺽ Ů Ř З Â

*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 Ů ѽ ˇ ~ Ů ѽ ѽ ˇ ≠ G ₩ ѽ LEDˇ ѽ H ₶ Â

*Viewing direct to the light