Part No.:

Initial Electrical Optical Characteristics Ta=25

Parameter	Symbol	Color.	Min.	Typ.	Max.	Unit.	Test Conditions
Luminous Intensity	Iv	R	/	400	/	mcd	IF=20mA
		G	/	2000	/		
Dominant Wave Length	∂d	R	620	/	630	nm	IF=20mA
		G	515	/	530		
Peak Wave Length	∂p	R	/	620	/	nm	IF=20mA
		G	/	525	/		
Forward Voltage	VF	R	1.8	/	2.4	V	IF=20mA
		G	2.6	/	3.4		
Half wave width	∅∂	R/G	/	25	/	nm	IF=20mA
Viewing Angle	2Ï1/2	R	/	45Á	/	deg	IF=20mA
		G	/	45Á	/		
Reverse Current	IR	R	/	/	5	εA	VR=5V
		G	/	/	5		

Note :

1. CIE

The luminous intensity is the simulated luminous intensity according to the response curve of human eyes to luminous intensity, which conforms to CIE (International Light Commission)

2.

The measurement of the luminous angle is the data measured when the luminous brightness is half.

3. 10%

Guaranteed error of luminous brightness is plus or minus 10%.

亮度分档:

Brightness grading:

代码 Code	最小值 Min	最大值 Max

电压分档:

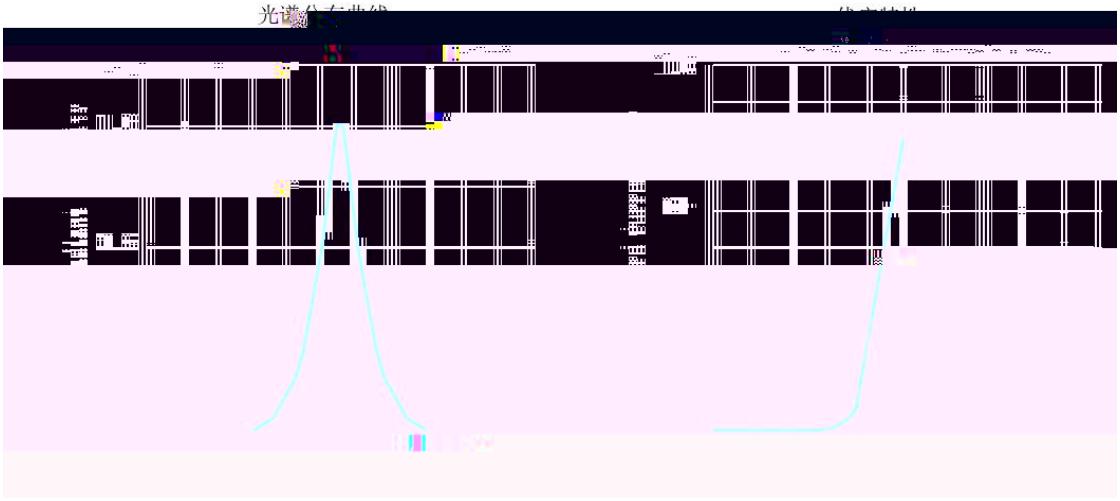
Voltage grading:

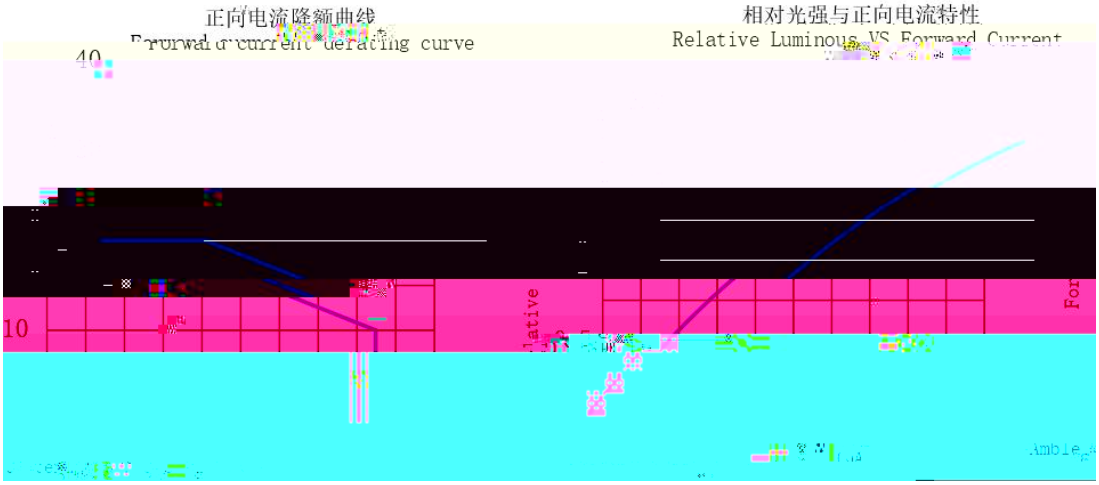
波长分档:

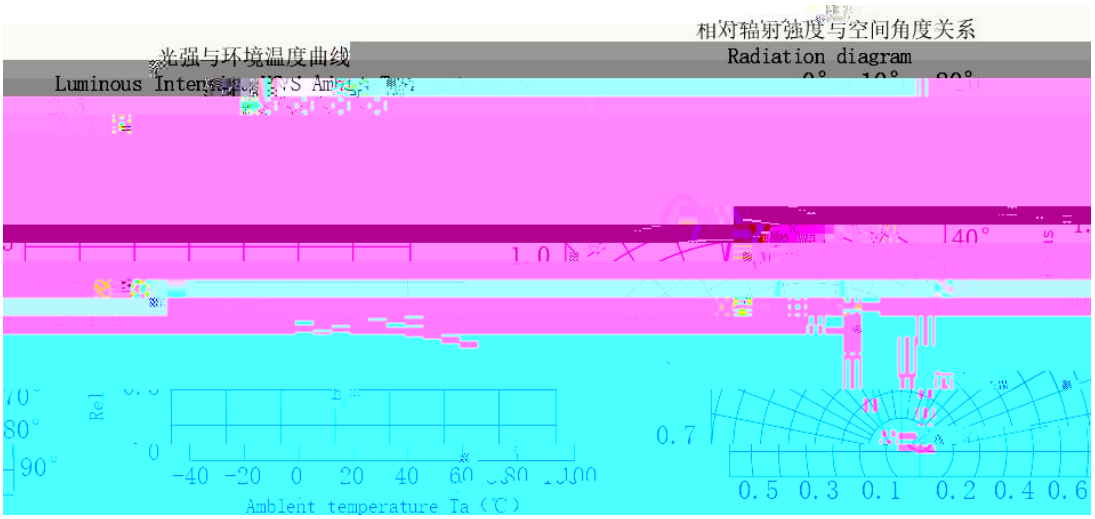
Wavelength grading:

典型特性曲线

Typical Characteristics Curves



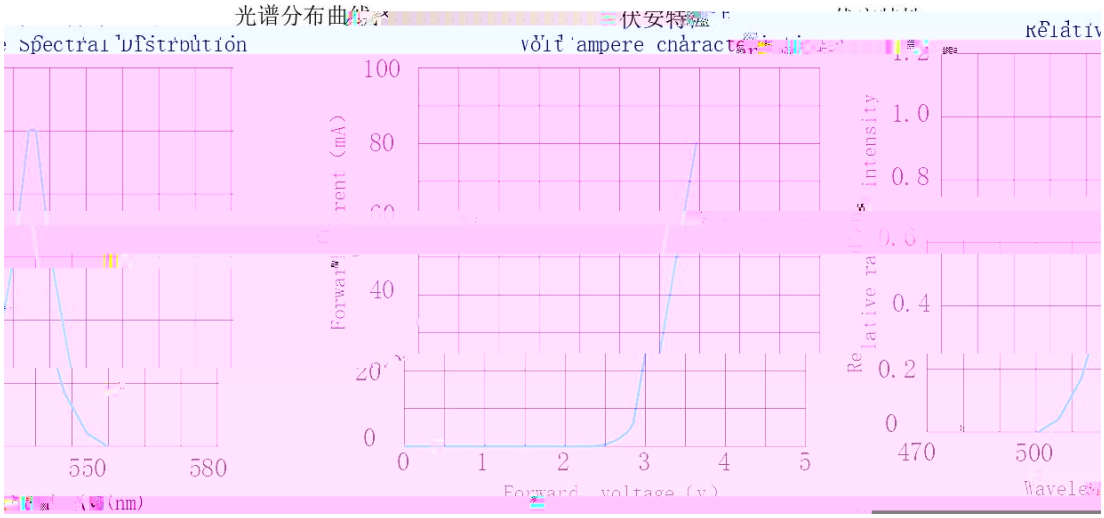


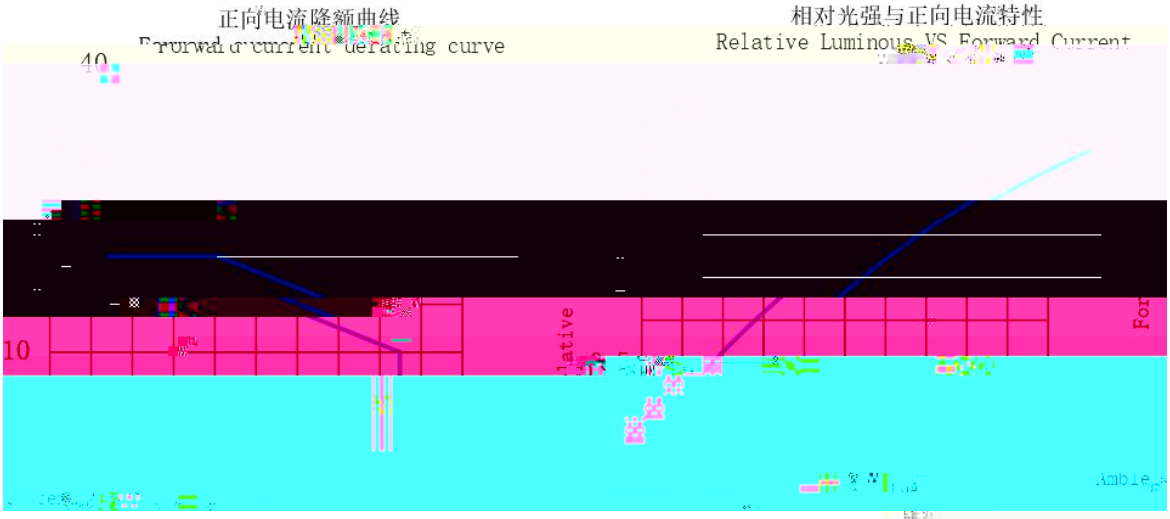


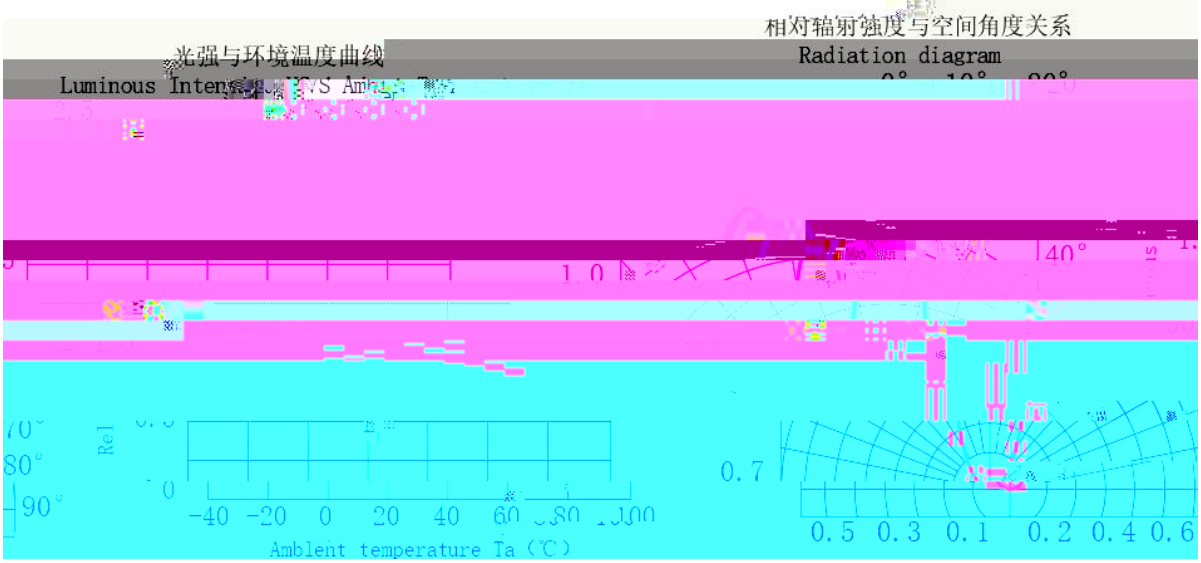
25 + 5 C./Note: If not otherwise indicated, the test environment temperature is 25 + 5 C.

典型特性曲线

Typical Characteristics Curves







25 + 5 C./Note: If not otherwise indicated, the test environment temperature is 25 + 5 C.

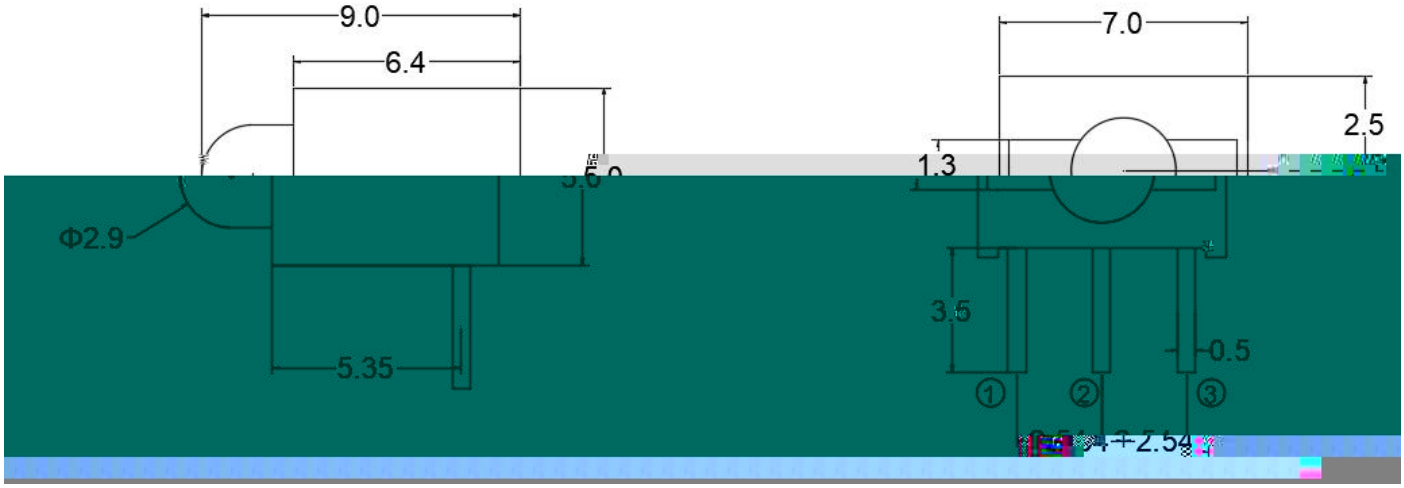
可靠性试验

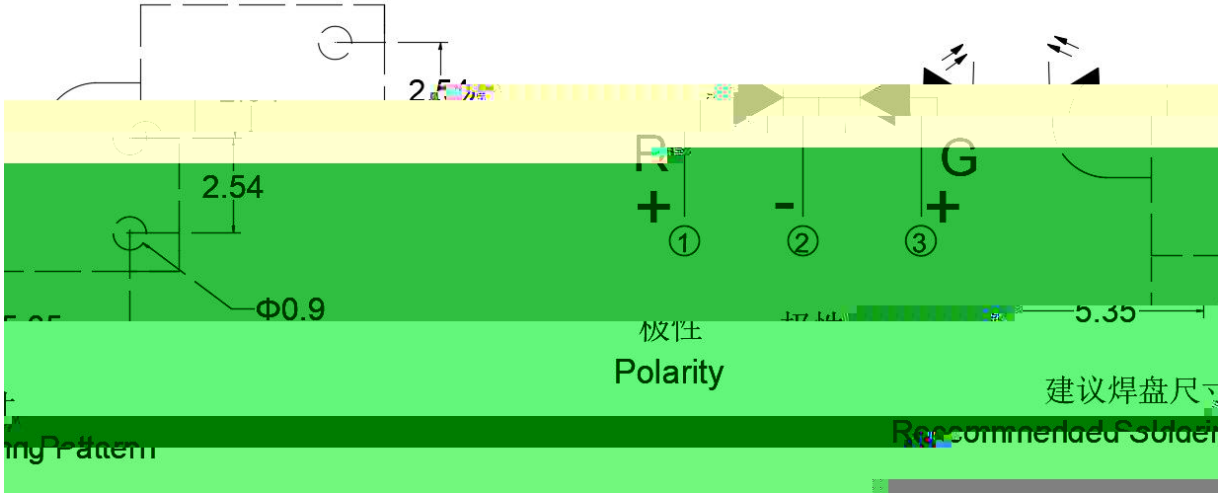
Reliability Test Items And Conditions

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 0.25mm .

Tolerances unless mentioned are Ñ 0.25mm.

包装

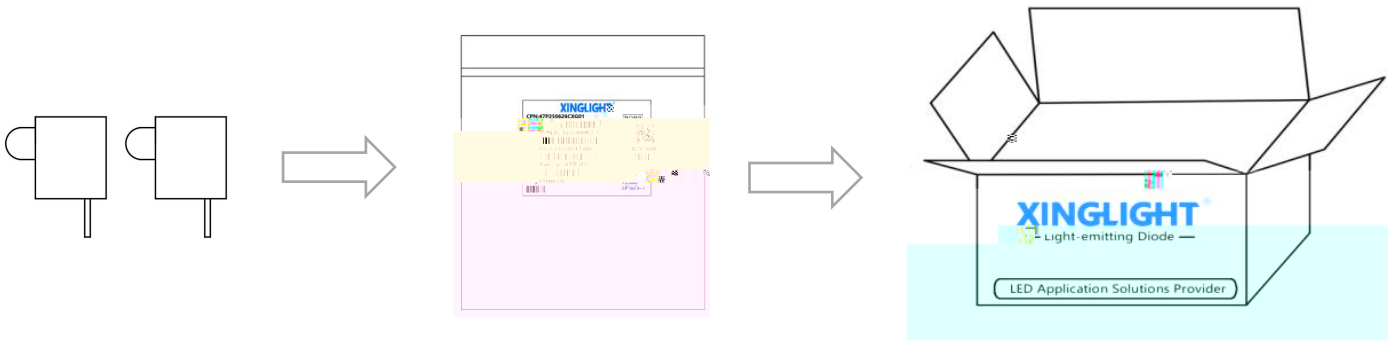
Packaging

*

In Bags

*

Moisture Proof and Anti-Electrostatic Foil Bag



使用注意事项（1）

Precautions (1)

1、贮存.

Storage

* LED 30 70% LED

Storage environment of LED with temperature not exceeding 30 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.

2、静电：

Static Electricity

*

LED 1 100V

ti-i

* Static electricity or surge voltage damages the LEDs. Damaged LEDs will show some unusual characteristic such as the forward voltage becomes lower, or the LEDs do not light at the low current. even not light.

All devices, equipment and machinery must be properly grounded. At the same time, it is recommended that wrist bands or anti-electrostatic gloves, anti-electrostatic containers be used when dealing with the LEDs.Using ordinary plastic pr ts are strictly p ibited.It is ommende use ion fans to suppress the static electricity generation d p tiq q m k q

使用注意事项(2)

(2)

、设计建议

Design Consideration

* LED

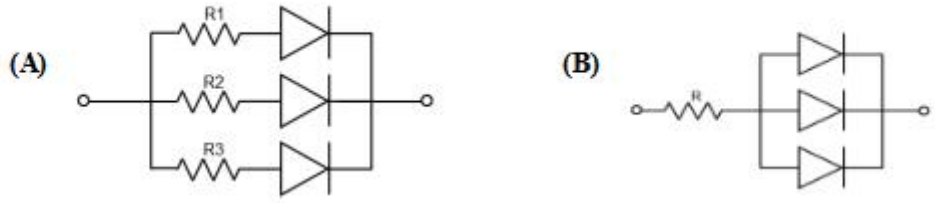
A LED B

LED V_F LED

* In designing a circuit, the current through each LED must not exceed the absolute maximum rating specified for each LED. In the meanwhile, resistors for protection should be applied, otherwise slight voltage shift will cause big current change, burn out may happen.

It is recommended to use Circuit A which regulates the current flowing through each LED rather than Circuit B.

When driving LEDs with a constant voltage in Circuit B, the current through the LEDs may vary due to the variation in Forward Voltage (V_F) of the LEDs. In the worst case, some LED may be subjected to stresses in excess of the Absolute Maximum Rating.



* LED LED

* Thermal Design is paramount importance because heat generation may result in the Characteristics decline, such as brightness decreased, Color changed and so on. Please consider the heat generation of the LEDs when making the system design.

[redacted])

4、[redacted]事项：

Others

*_ ʊ

*When handling the product, touching the encapsulant with bare hands will not one_t œn ynarh T

beb