

XL-304UBD

F3

技术数据表

特点 () :

* : F3/3.8*3.0*5.2*28mm

Appearance dimension: F3/3.8*3.0*5.2*28mm

* : /

Luminous color and colloid: blue brightness White /blue colloid

* ROHS

Environmental protection products meet ROHS requirements

* MSL :2

Moisture sensitivity level MSL : 2 levels

* EIA

EIA standard packaging

*

Long operating life

*

High energy efficiency, fast startup

*

Low voltage DC drive

应用领域 () :

* ;

Home appliances, digital, communication

*

Automotive Electronics

*

Lighting decoration

*

electronic toy

*

electronic clock

*

Traffic instructions

*

Medical beauty instruments

*

Electronic teaching equipment

*

Urban lighting



电性参数

Consumed power	Pd	70	mW
Max Continuous Forward Current	IF	20	mA
Peak Forward Current	IFp	80	mA
Operating ambient temperature	Topr	-20 C ~ +85 C	
Storage ambient temperature	Tstg	-40 C ~ +85 C	
Welding conditions	Tsol	reflow soldering 240°C 6s manual welding 300°C 3s 2.0mm	

Luminous Intensity	Iv	300	600	900	mcd	IF=20mA
Dominant Wave Length	λ_d	460	/	470	nm	IF=20mA
Peak Wave Length	λ_p	/	465	/	nm	IF=20mA
Forward Voltage	VF	2.8	3.0	3.4	V	IF=20mA
Viewing Angle	2 θ 1/2	/	30	/	deg	IF=20mA
Spectral Width at half height	λ	/	25	/	nm	IF=20mA
Reverse Current	IR	/	/	≤ 10	μA	VR=5V

± 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

:

代码	最小值	最大值	单位	测试条件
A4	300	400	mcd	IF=20mA
A5	400	500		
A6	500	700		
A7	700	900		

电压分档

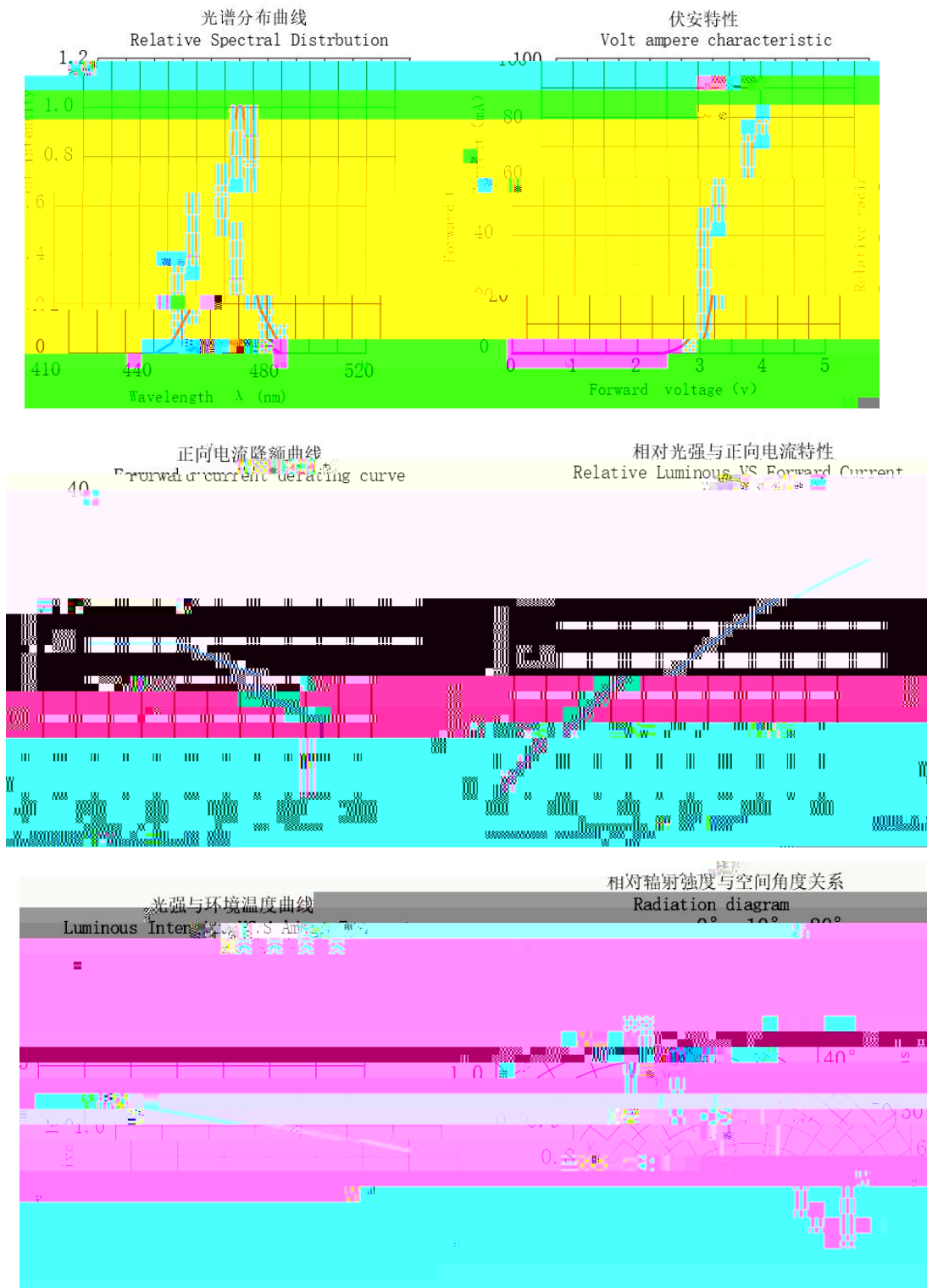
:

代码	最小值	最大值	单位	测试条件
N13-3	2.8	3.0	V	IF=20mA
N13-4	3.0	3.2		
N13-5	3.2	3.4		

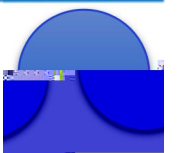
波长分档

代码	最小值	最大值	单位	测试条件
HB04	460	465	nm	IF=20mA
HB05	465	470		
HB06	470	475		

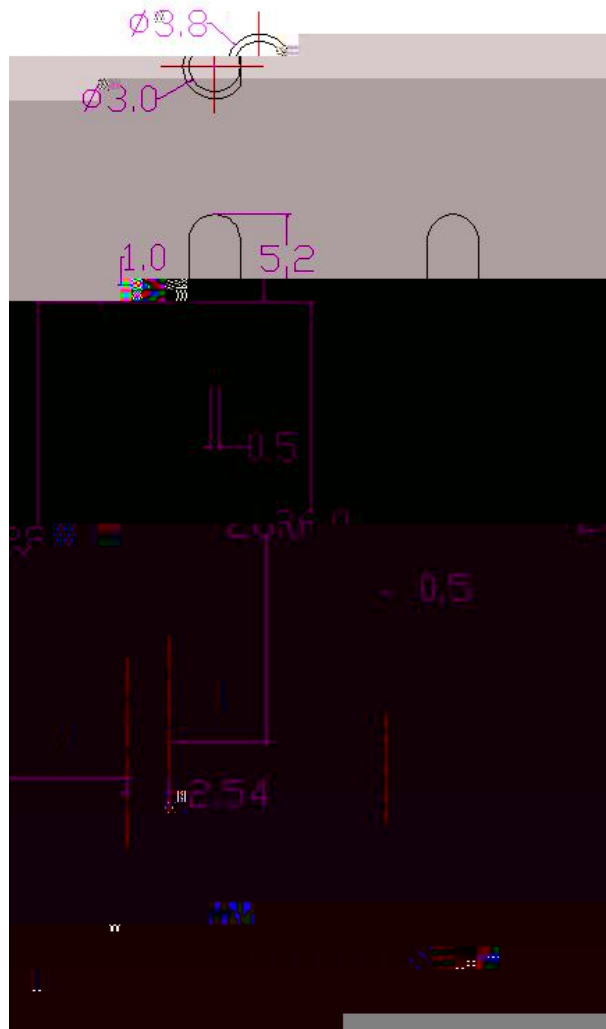
典型特性曲线



25±5 /Note If not otherwise indicated the test environment temperature is 25±5



外形尺寸



(Note)

1.

Dimensions are in millimeters.

2.

$\pm 0.50\text{mm}$

Tolerances unless mentioned are $\pm 0.50\text{mm}$.

包装

*

In Bags

*

Moisture Proof and Anti-Electrostatic Foil Bag

使用注意事項 (1)

1.

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 high reliability requirements, such as air transportation, traffic control and medical liao equipment, must refer to the information provided by sales.

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.

3

Special care must be taken when cleaning collo jde with chemicals, as some chemicals have damage to the collo jde surface and cause fading such as trichloroethylene, propylene, ketone, etc.It can be wiped and soaked with ethanol for no more than 3 minutes at room temperature.

1

2

It must be 2 mm from the collo j e J bend the bracket.

2

Support forming must be jnt with fixtures or by a professional.

3

Support forming must be completeBefore welding.

4

The pins and spacing are the same as on the circuit board.

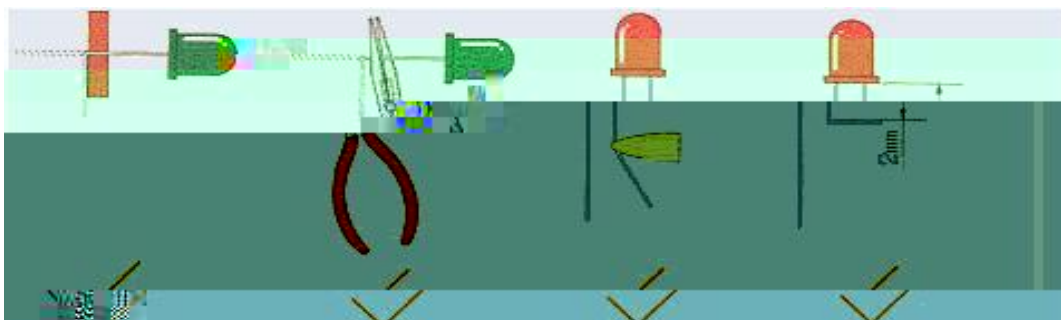
5

LED

PCB

LED

Welding must be performed normal temperature and when LED is normally welded to the PCB plate, avo j eplying mechanical pressure at LED pins at a minimum.



使用注意事項 (2)

Precautions (2)

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.



LED

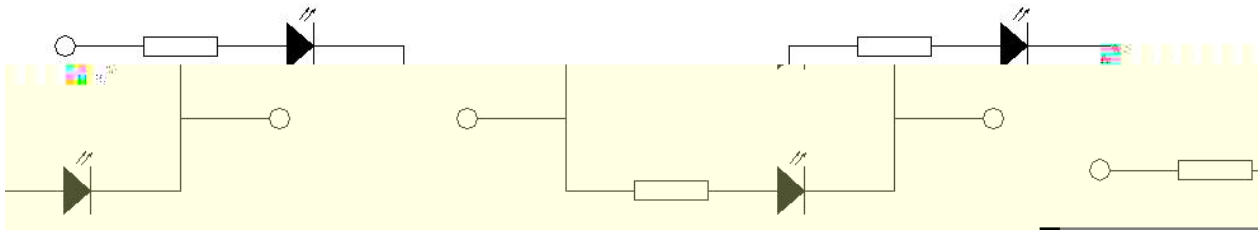
LED

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.



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.

