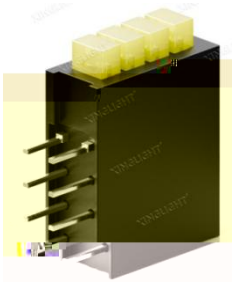
XL-DZ234UYD/4 技术数据表

234



特点（ ）：

* :12*5.2*14.2mm

Appearance dimension: 12*5.2*14.2mm

* : /

Luminous color and colloid: Yellow Light /Yellow 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

product ）

*

Internet of Things

*

medical treatment

*

converter

*

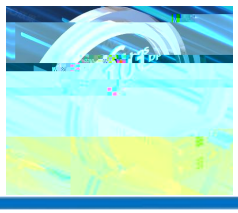
Storage servers and communication

*

Status indicator

*

Electronic testing instruments



电性参数

Parameter	Symbol	Value	Unit
Max Power Dissipation	PD	200	mW
Max Continuous Forward Current	IF	20*4=80	mA
Peak Forward Current	IFP	80*4=320	mA
Max Reverse Voltage	VR	5	V
Antistatic ability	ESD	2000	V
Operating Temperature Range	TOPR	-40 ~ +85	
Storage Temperature Range	TSTR	-40 ~ +85	
/ (Lead Soldering Temperature/Time)	TSOL	260	

亮度分档

：

代码	最小值	最大值	单位	测试条件
A1	50	100	mcd	IF=20mA
A2	100	200		
A3	200	300		
A4	300	400		
A5	400	500		

亮度误差±10%　Brightness error ± 10%

电压分档

：

代码	最小值	最大值	单位	测试条件
N12-7	1.8	2.0	V	IF=20mA
N12-8	2.0	2.2		
N12-9	2.2	2.4		

电压误差±0.1V　Voltage error ± 0.1V

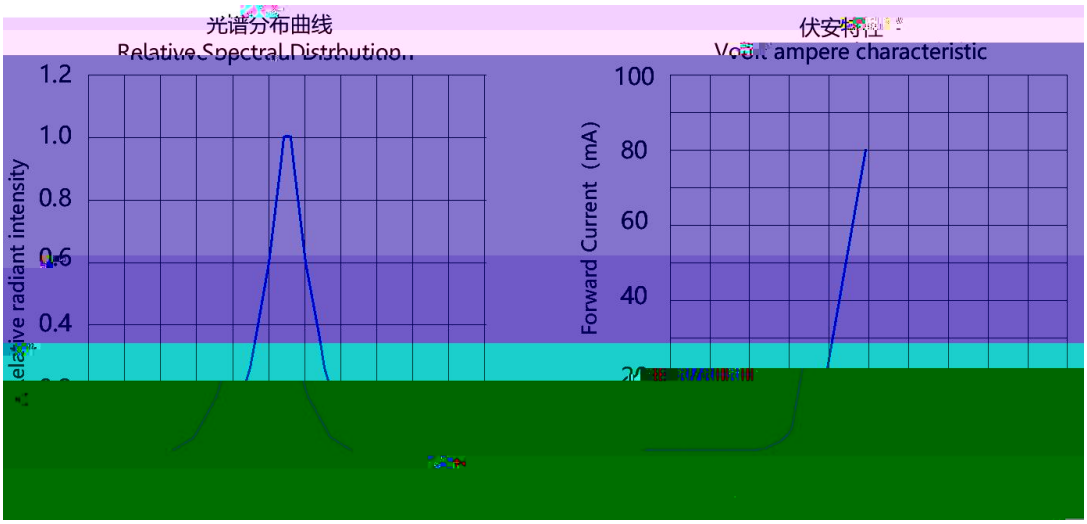
波长分档

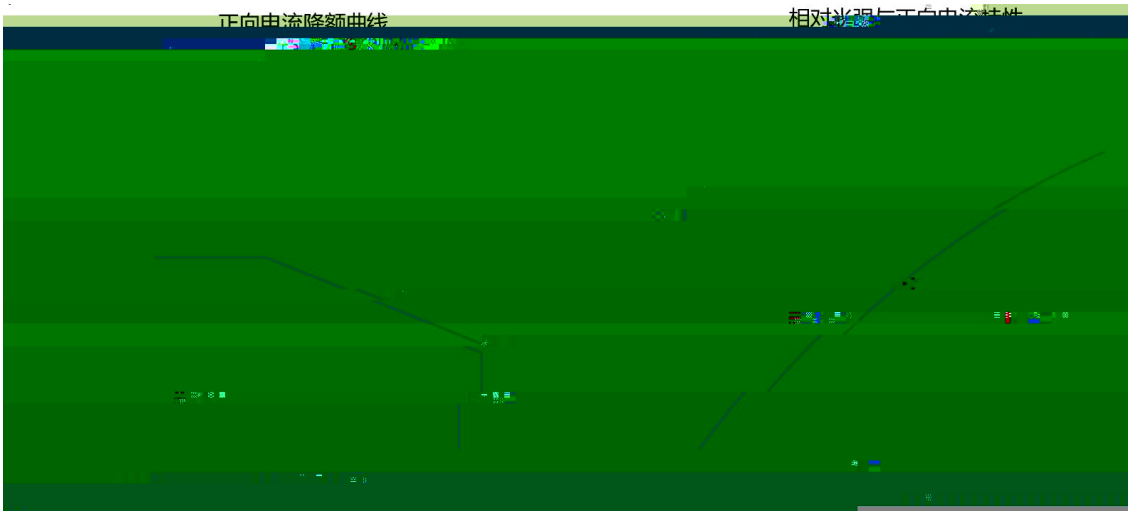
：

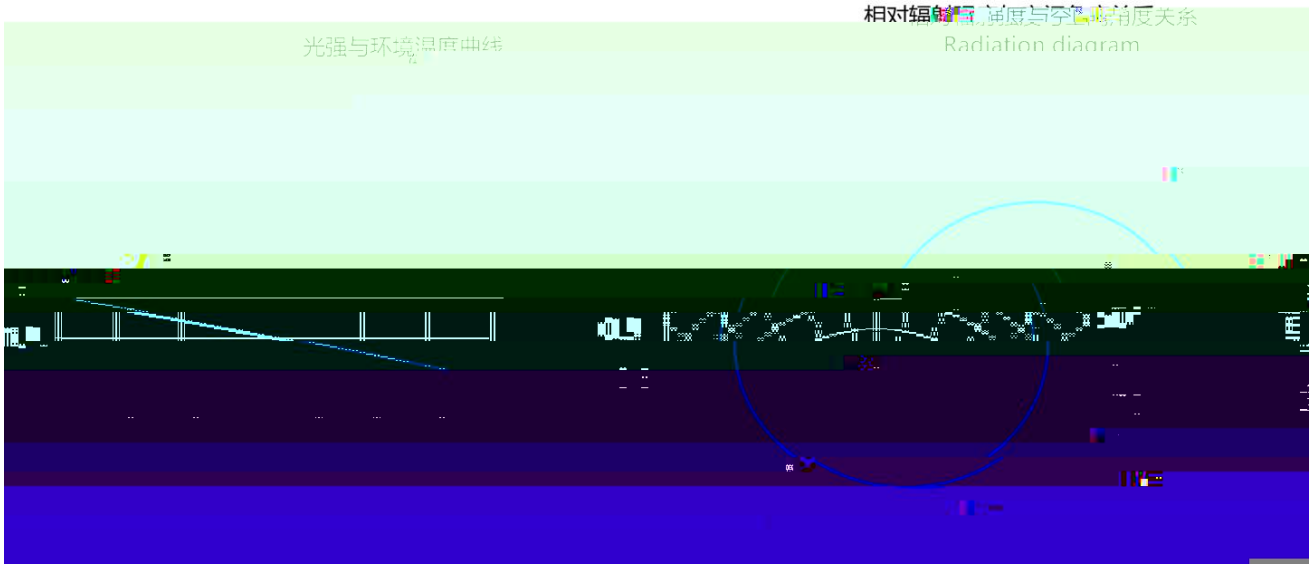
代码	最小值	最大值	单位	测试条件
HY03	585.0	587.5	nm	IF=20mA
HY04	587.5	590.0		
HY05	590.0	592.5		
HY06	592.5	595.0		

波长误差±1nm　Wavelength error ± 1nm

典型特性曲线







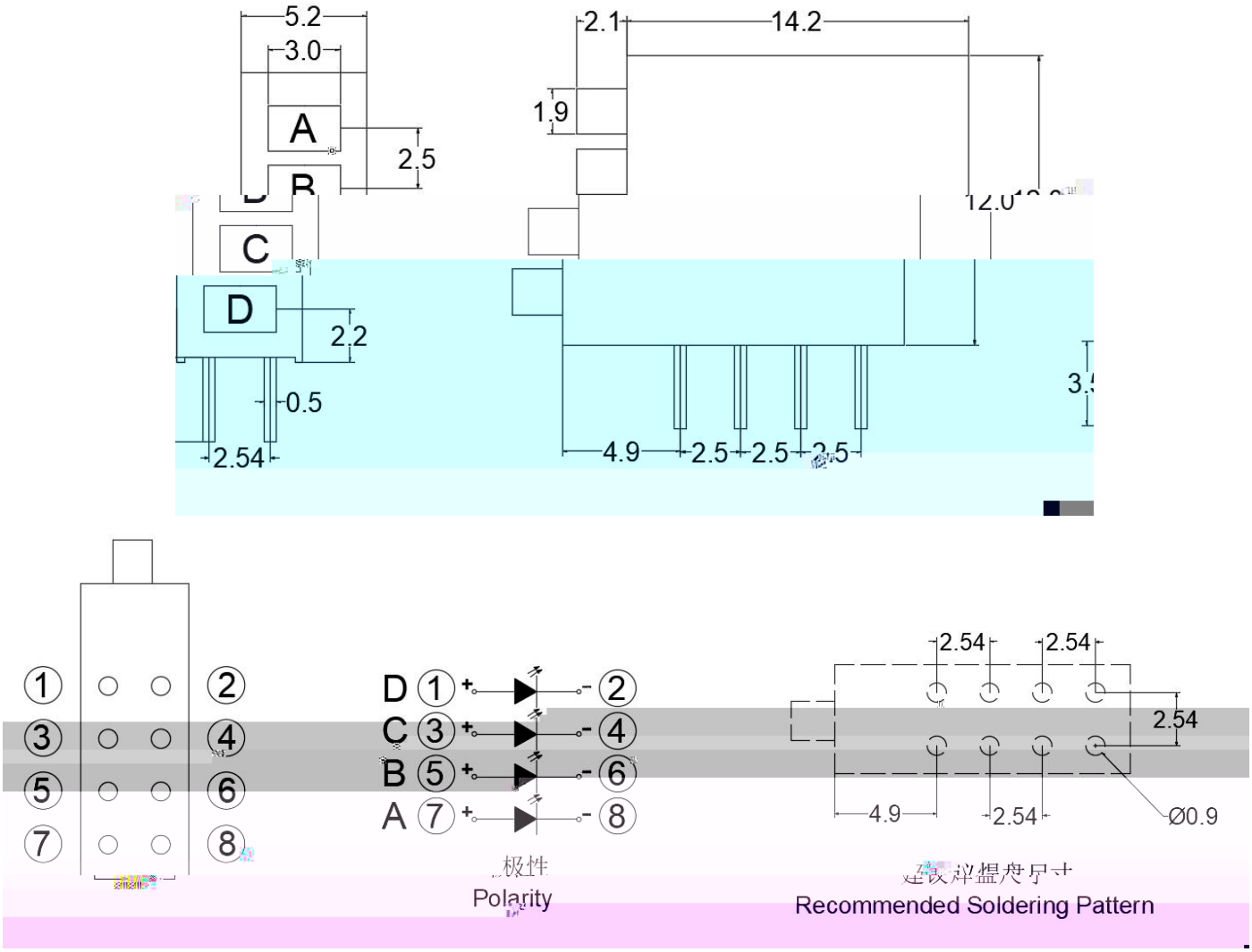
: 25 + 5 C./Note: If not otherwise indicated, the test environment temperature is 25 + 5 C.

可靠性试验

Reliability Test Items And Conditions

J Class	Test item	Testing environment	Testing time	Qty	Failqty
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
	m"				

外形尺寸



(Note)

1.

Dimensions are in millimeters.

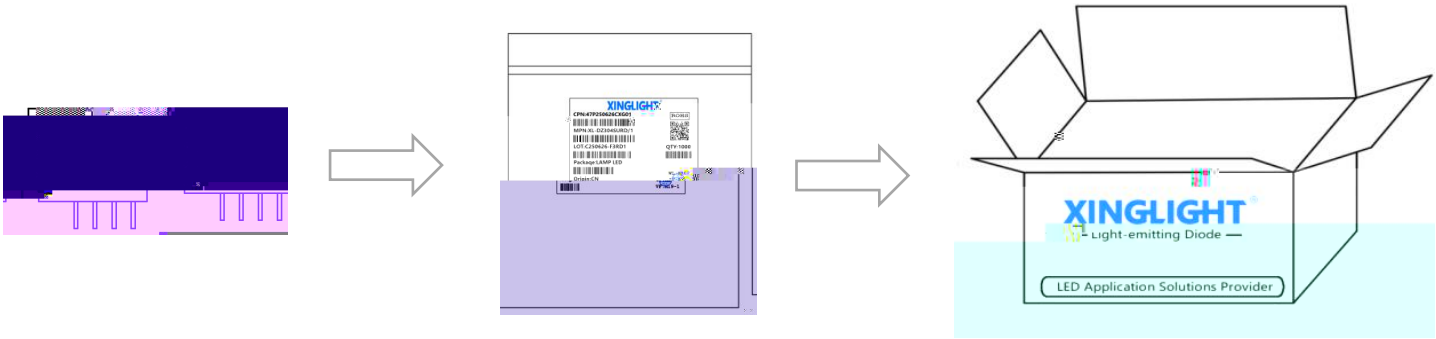
2. ± 0.25mm .

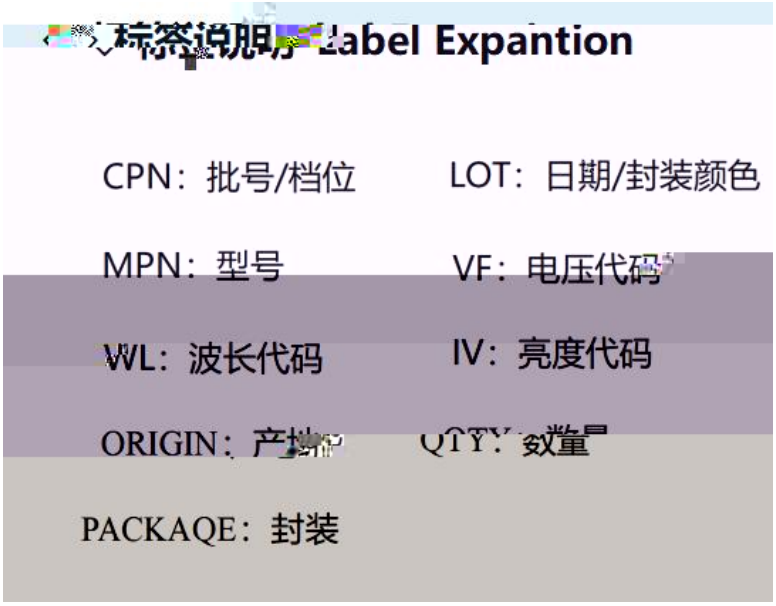
Tolerances unless mentioned are ± 0.25mm.

包装

*
In Bags

*
Moisture Proof and Anti-Electrostatic Foil Bag





使用注意事项（1）

1、

* LED 30 70% LED

Storage environment of LED with temperature not exceeding 30 and relative humidity not exceeding 70%.It is recommended that LED be used in the original box for no more than three months. If longer storage time is required, it should be stored in the drying box and add desiccant or filled with nitrogen.

2、静电：

*

LED 1

使用注意事项（2）

Precautions (2)

、设计建议

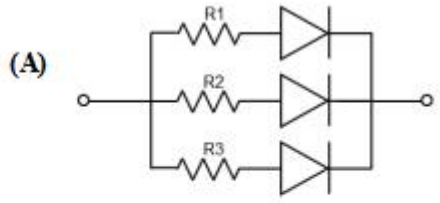
* LED

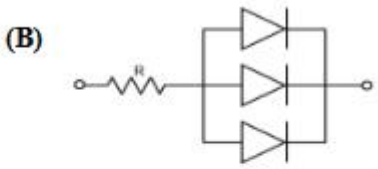
A LED B

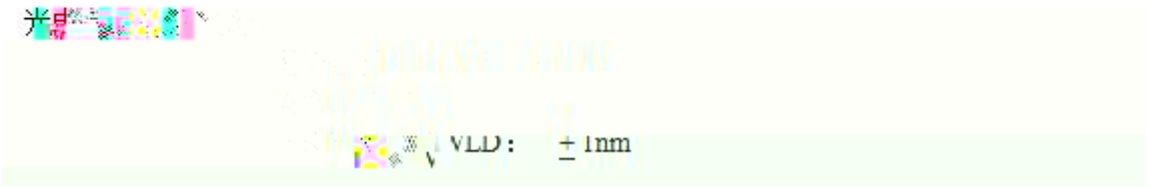
LED V_F LED

* 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.

使用注意事项（3）

Precautions (3)

4、其他事项：