技术数据表 Technical Data Sheet

目录

Catalogue

电性参数

Electrical Characteristics

ǎ ^ Absolute Maximum Ratings˜ ^ Ta=25 ˜

ǎ Parameter	ˆ Symbol	ѽ Red	Green	ϒ β Unit
w ^ Max Power Dissipation˜	PD	50	70	mW
h ^ Max Continuous Forward Current˜	IF	20	20	mA
ǁ ẏ ^ Peak Forward Current˜	IFP	80	80	mA
ƀ ^ Operating Temperature Range˜	TOPR	-20 ~ +		

亮度分档:
Brightness grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
A5	400	500	mcd	IF=20mA
A6	500	700		
C1	8000	10000		
C2	10000	12000		
C3	12000	14000		

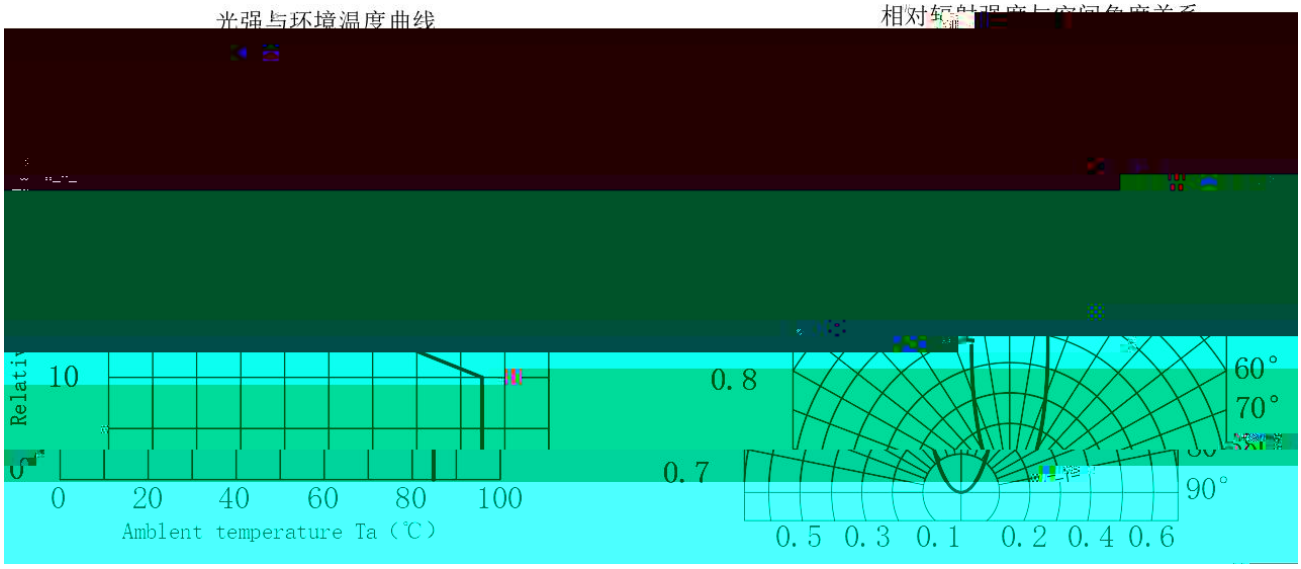
电压分档:
Voltage grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
N12-7	1.8	2.0	V	IF=20mA
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:
Wavelength grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
HG02	515	520	nm	IF=20mA
HG03	520	525		
HG04	525	530		
HR04	630	635		
HR05	635	640		

Typical Characteristics Curves



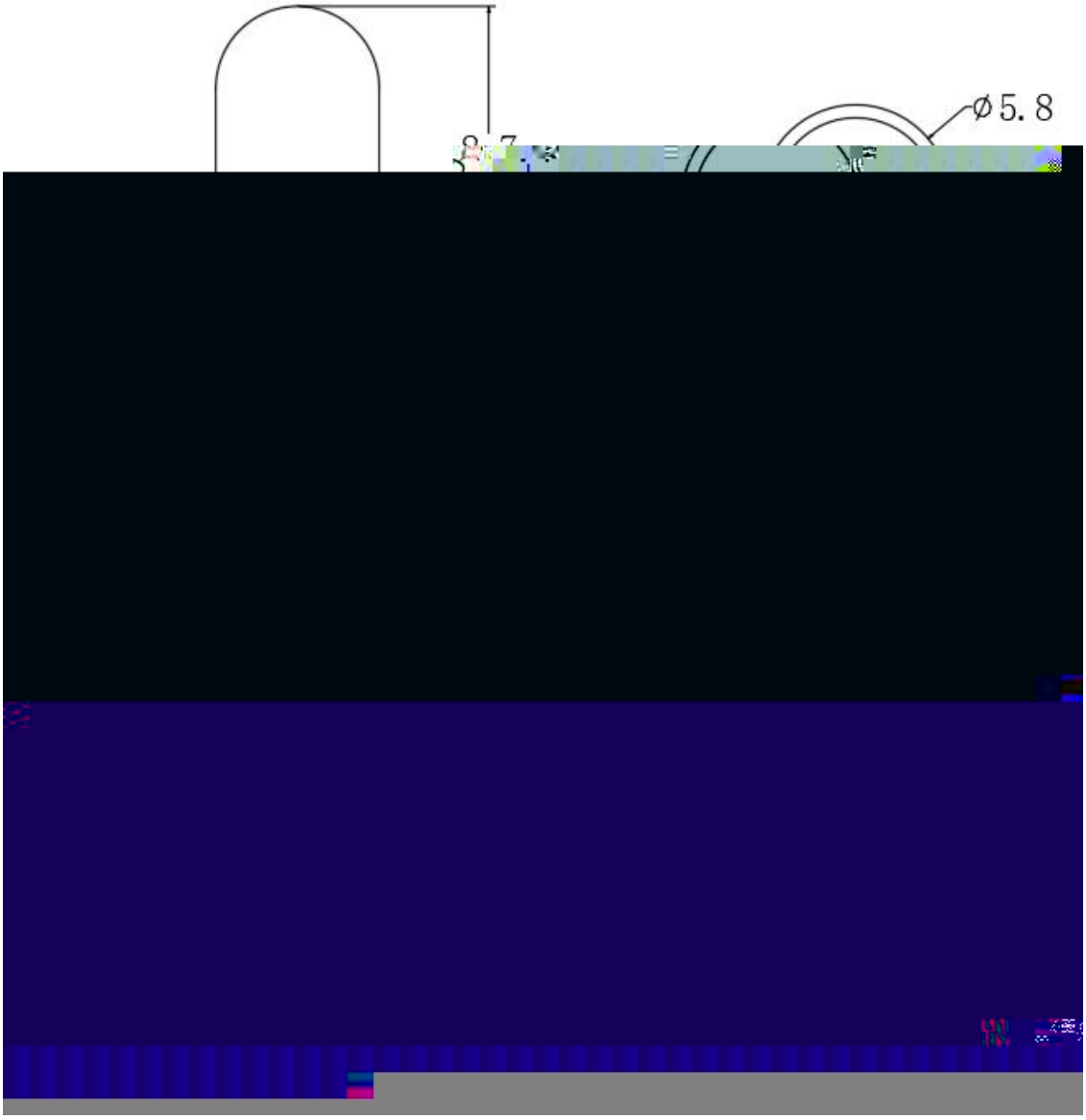
可靠性试验

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. Dimensions are in millimeters.

2. Tolerances unless mentioned are ± 0.50mm.

包装

Packaging

使用注意事項（1）

Precautions (1)

1. **APPLY**

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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. **Ư Keep in storage**

LED ˘ ь 3

使用注意事项（2）

Precautions (2)

5. Weld

2mm 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.

6. Drive way

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 C**

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 the its optical characteristics. Excessive force to the encapsulant might result in catastrophic failure of the LEDs due