技术数据表

目录

Catalogue

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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	14000	16000	25000	mcd	IF=20mA
Color temperature	TC	9000	12000	20000	K	IF=20mA
Coordinate value	X	/	0.278	/	/	IF=20mA
	Y	/	0.274	/	/	IF=20mA
Forward Voltage	VF	2.8	3.0	3.4	V	IF=20mA
Viewing Angle	2Ø1/2	/	30	/	deg	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
C4	14000	16000	mcd	IF=20mA
C5	16000	18000		
C6	18000	20000		
C7	20000	25000		

电压分档

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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		

色温分档

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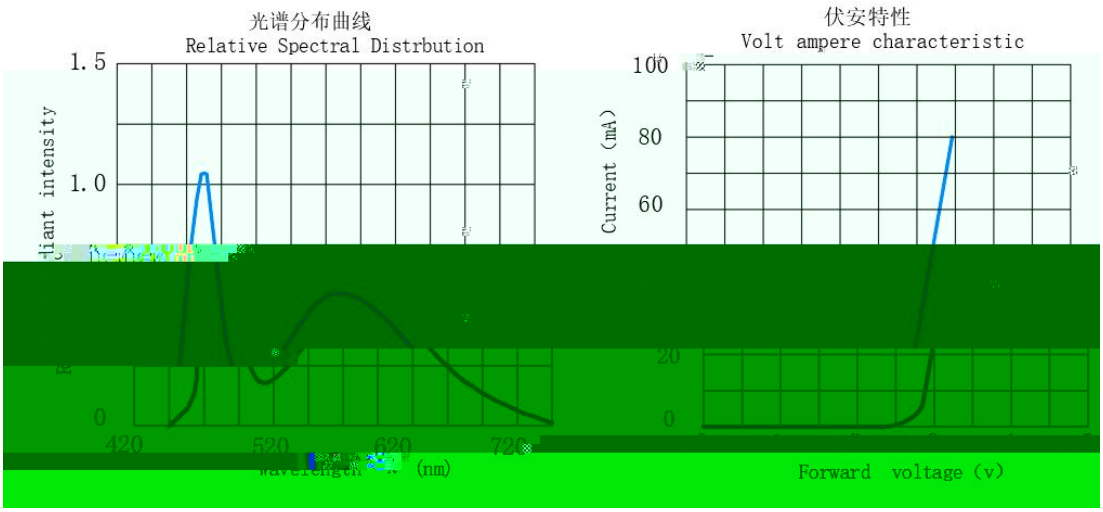
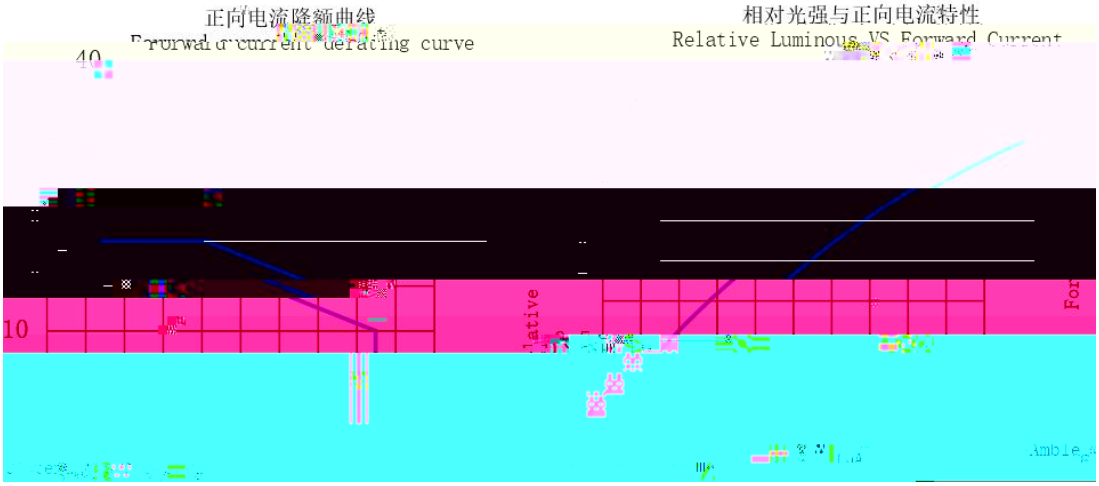
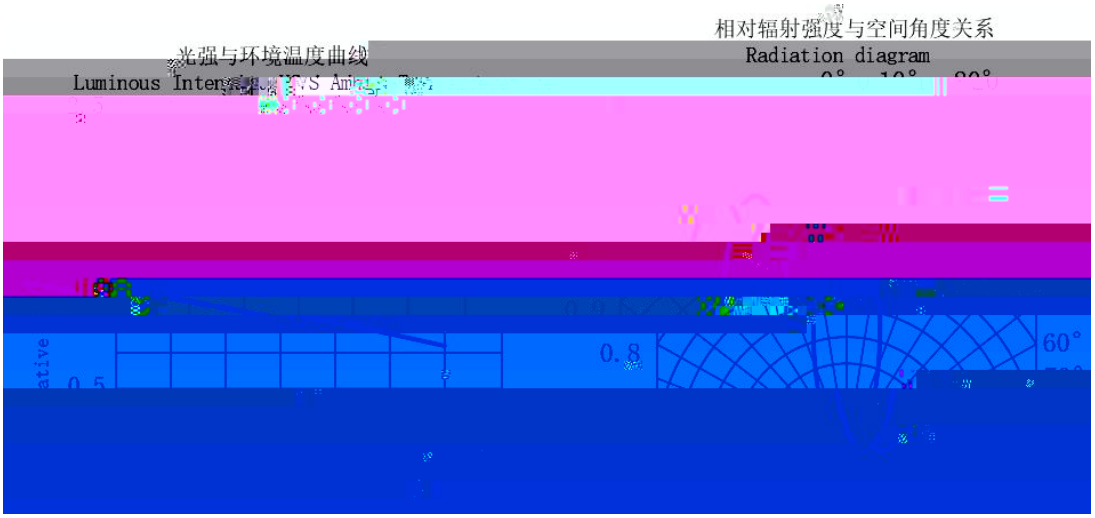
代码	最小值	最大值	单位	测试条件
UW15-18	9000	11000	K	IF=20mA
CW1-20	11000	15000		
CW4-21	15000	20000		

典型特性曲线







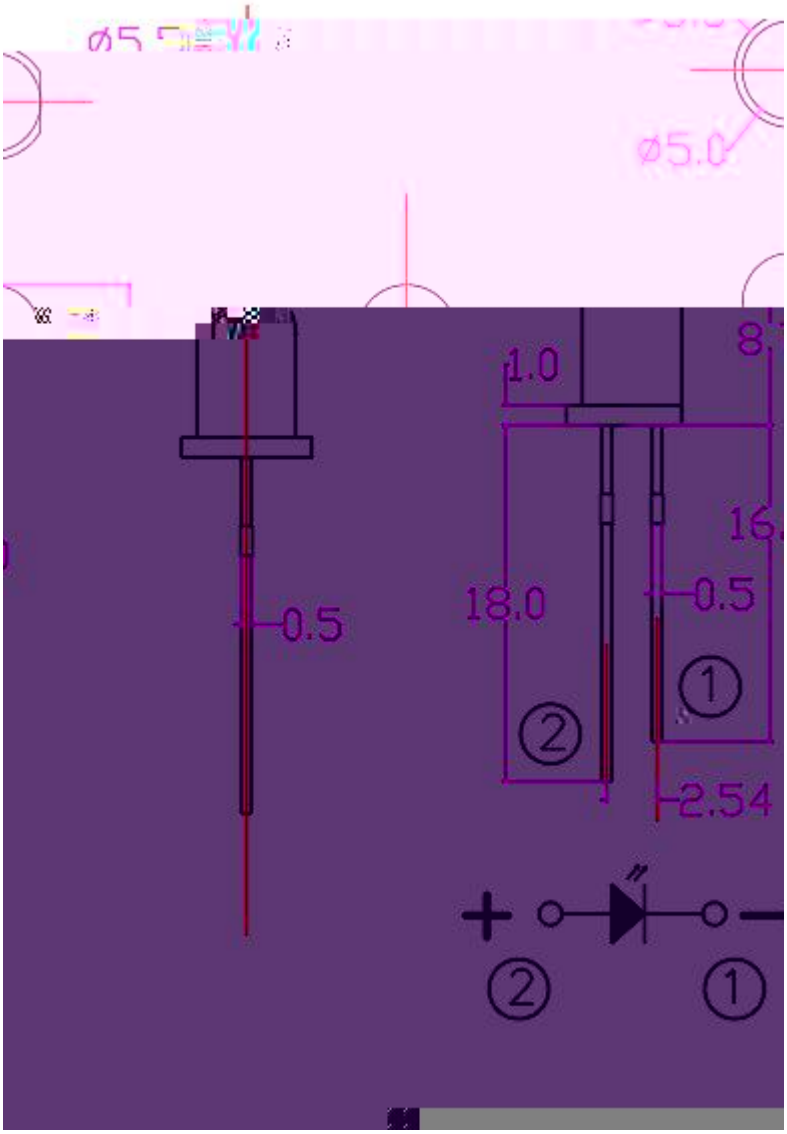
25±5 /Note If not otherwise indicated the test environment temp erature is 25±5

可靠性试验

Reliability Test Items And Conditions

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
	Lead Integrity	Load 2.5N(0.25kgf) 0°~ 90° ~			

外形尺寸



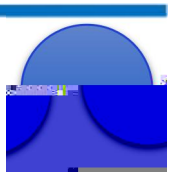
(Note)

1.

Dimensions are in millimeters.

2. ± 0.50mm .

Tolerances unless mentioned are ± 0.50mm.



使用注意事项（2）

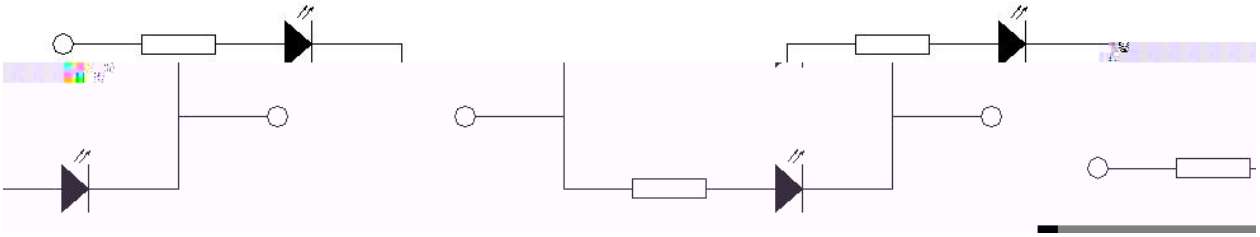
(2)

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.

使用注意事项（ ）

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8、其他事项：

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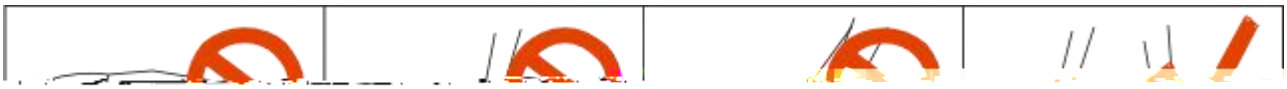
*When handling the product, touching the encapsulant with bare hands will not only contaminate its surface, but also affect on its optical characteristics. Excessive force to the encapsulant might result in catastrophic failure of the LEDs due to die breakage or wire deformation. For this reason, please do not put excessive stress on LEDs, especially when the LEDs are heated such as during Reflow Soldering.



*LED