



SUNSHINE ELECTRONICS TRADING LIMITED

Part No: SEL-522WCDC-064

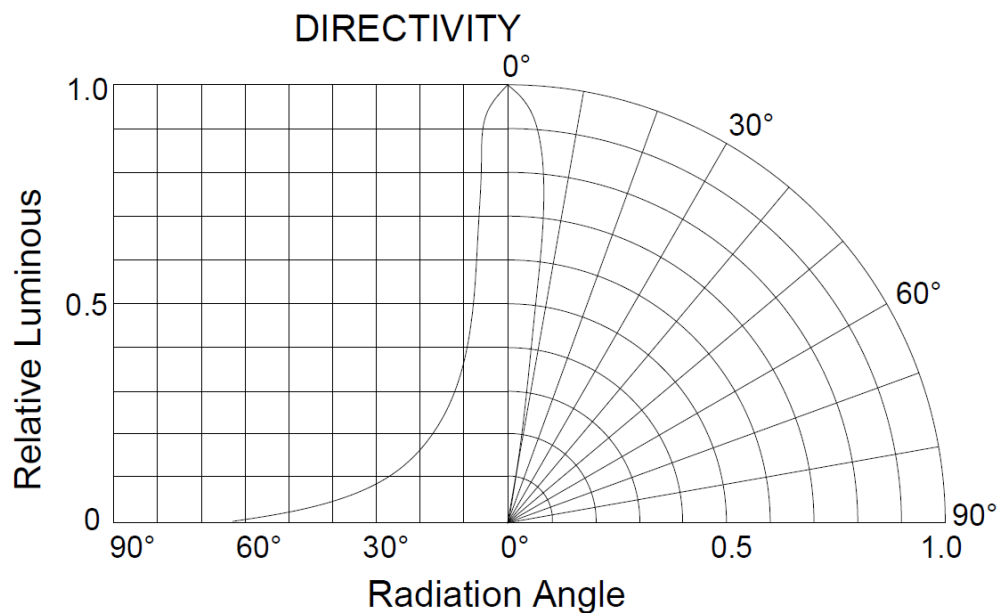
1. Features/特性:

- Emitting Color/发光颜色: White/白色
- High bright output/高亮度输出
- Low power consumption/低功耗
- High reliability and long life/可靠性高、寿命长
- RoHS compliant/符合 RoHS 标准

2. Descriptions/描述:

- Dice material/芯片材质: InGaN
- Emitting Color/发光颜色: Super Bright White/高亮度白光
- Device Outline/产品外形: $\varnothing$ 5mm Round Type/5mm 圆形
- Lens Type/胶体颜色: Water Clear/无色透明

3. Directivity/指向特性: ($T_a=25^{\circ}\text{C}$, $I_F=20\text{mA}$)

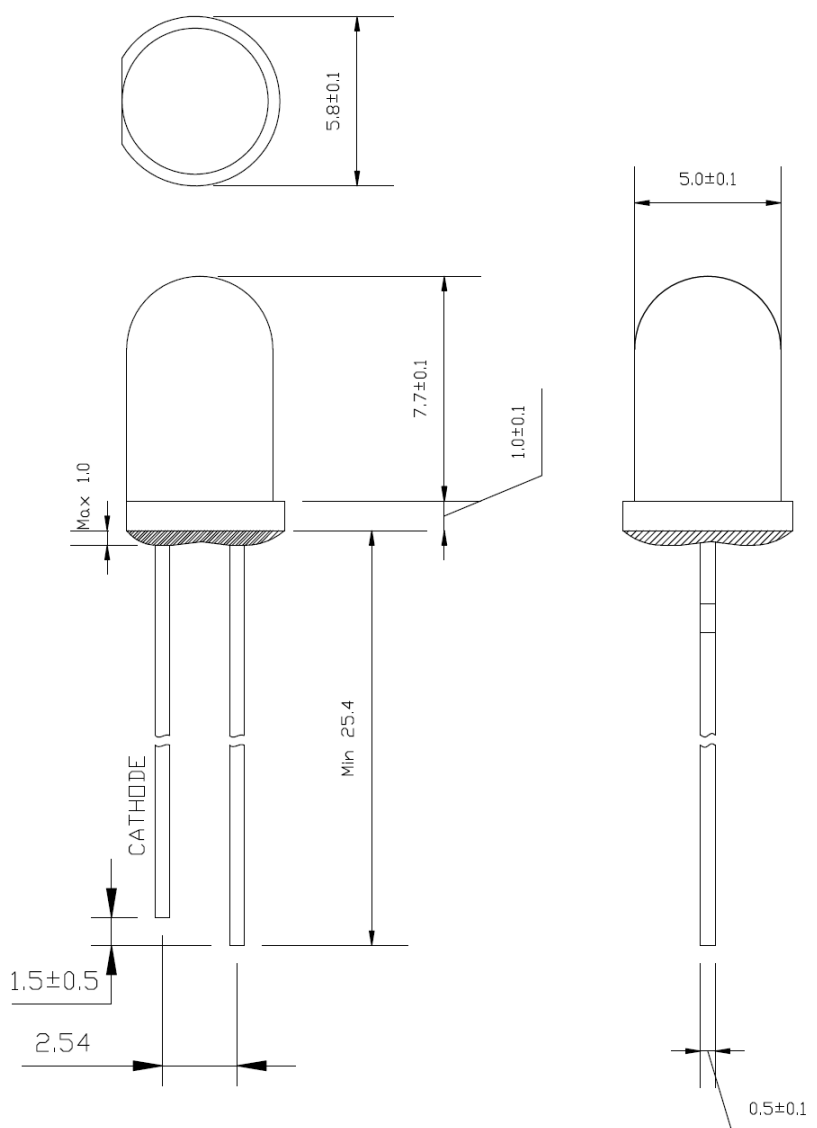




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4. Outline Dimensions/产品外形尺寸:



NOTE/注意:

All dimensions are millimeters/ 单位: mm

Tolerance is ± 0.25 mm unless otherwise noted/ 没有标注的公差为 ± 0.25 mm



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5. Absolute maximum ratings/极限参数 (Ta = 25°C)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 数值		Unit 单位
			Min.	Max.	
Reverse Voltage 反向电压	VR	IR = 30μ A	5	--	V
Forward Current 正向工作电流	IF	----	----	25	mA
Power Dissipation 损耗功率	Pd	----	----	90	mW
Pulse Current 正向峰值电流	Ipeak	Duty=0.1mS, 1kHz	----	100	mA
Operating Temperature 工作温度范围	Topr	----	-40	+85	°C
Storage Temperature 储存温度范围	Tstr	----	-40	+100	°C

6. Electrical and optical characteristics/光电参数 (Ta = 25°C)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 数值			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	VF	IF = 20mA		3.2	3.6	V
Reverse Current 反向电流	IR	VR = 5V	----	----	30	μ A
Luminous Intensity 发光强度	IV	IF = 20mA	15000	----	26000	mcd
Viewing Angle 指向角度	2θ 1/2	IF = 20mA	----	15	----	Deg.

Notes/备注: Tolerance 误差: VF: ±0.10V, IV: ±15%, 其它: ±5%
出货分档以发光强度为标准, 光通量值仅供参考

7. Luminous Intensity Bins Chart/亮度等级 (Ta = 25°C)

Bin	Z4	Z5	Z6
Min	15000	18000	22000
Max	18000	22000	26000

Notes/备注: Rank error/分档误差: IV: ±15%



8. Chromaticity Coordinates Ranks /色坐标等级 (IF=20mA Ta=25°C)

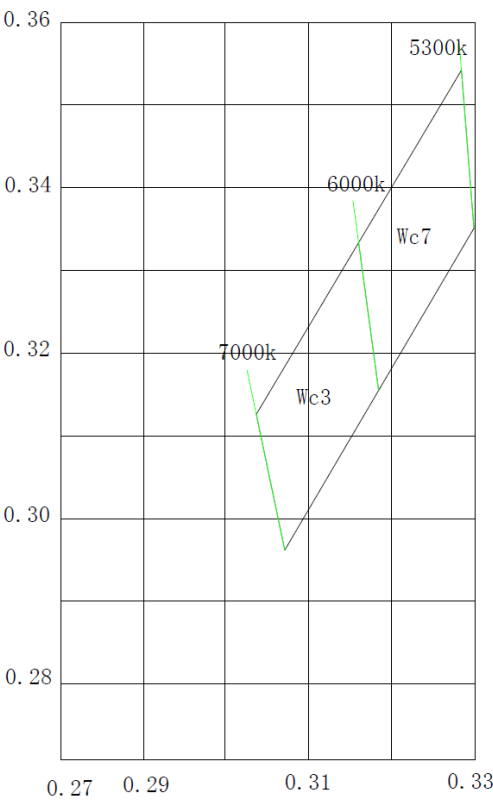
色坐标误差: ±0.01

代 码	轴	参 数			
Wc3	X	0.3038	0.3160	0.3185	0.3072
	Y	0.3126	0.3334	0.3155	0.2962
Wc7	X	0.3160	0.3284	0.3299	0.3185
	Y	0.3334	0.3542	0.3351	0.3155

9. CIE 1931

Chromaticity

diagram/CIE1931 图 (IF=20mA Ta=25°C)





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10. Typical electrical/optical characteristic curves/光电特性曲线:

Fig.1 正向电流 Vs. 正向电压

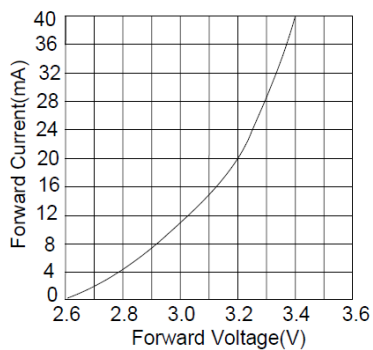


Fig.2 相对亮度 Vs. 正向电流

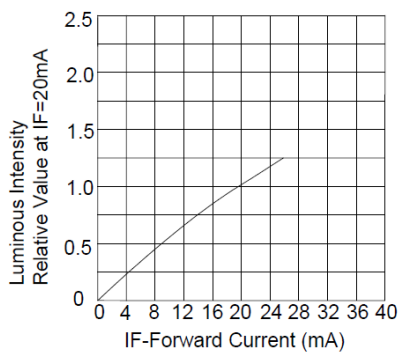


Fig.3 正向电流 Vs. 环境温度

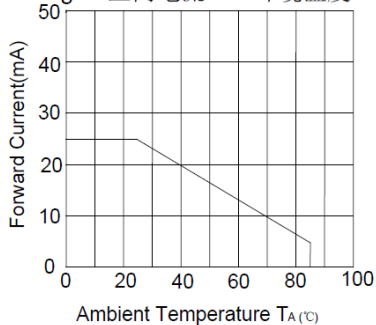


Fig.4 相对亮度 Vs. 环境温度

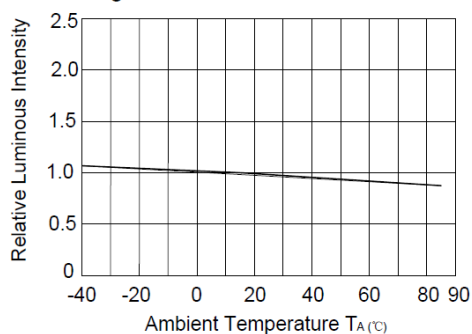


Fig.5 相对亮度 Vs. 波长

