

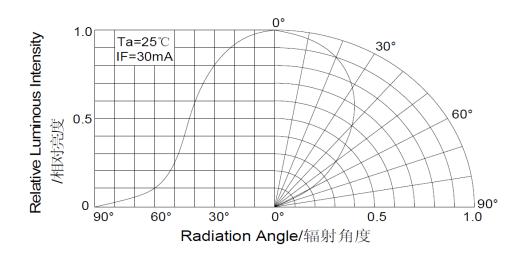
Part No: SEL-P4-50SBWC90

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:

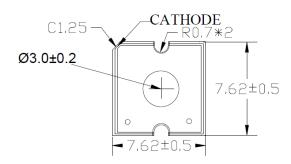
- Dice material/芯片材质: InGaN
- Lead material/支架材质: Cu
- Emitting Color/发光颜色: Super Bright White/高亮度白光
- Device Outline/产品外形: 7.62mmX7.62mm
- Lens Type/胶体颜色: Water Clear/无色透明
- 3. Directivity/指向特性: (Ta=25℃, IF=30mA)

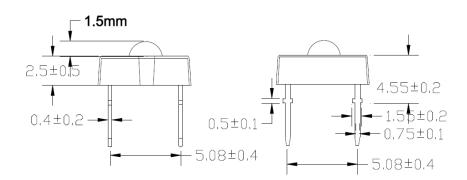




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4. Outline Dimensions/产品外形尺寸:





- 1. All dimensions are millimeters/单位: mm.
- 2. Tolerance is +/-0.20mm unless otherwise noted/ 没有标注的公差均为±0.20mm.



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

Parameter	Symbol	Test Condition	Value 数值		Unit
参数	符号	测试条件	Min.	Max.	单位
Reverse Voltage 反向电压	VR	IR = 30 μ A	5		V
Forward Current 正向工作电流	lF			50	mA
Power Dissipation 损耗功率	Pd			190	mW
Pulse Current 正向峰值电流	Ipeak	Duty=0.1mS, 1kHz		150	mA
Operating Temperature 工作温度范围	Topr		-40	+85	$^{\circ}$
Storage Temperature 储存温度范围	Tstr		-40	+100	$^{\circ}$

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

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 数值			Unit
			Min.	Тур.	Max.	单位
Forward Voltage 正向电压	VF	IF =50mA		3.2	3.6	V
Reverse Current 反向电流	IR	VR = 5V			10	μА
Luminous Flux 光通量	ф	IF = 50mA		19		Lm
Viewing Angle 指向角度	2 θ 1/2	IF = 50mA		90		Deg.

Notes/备注: Tolerance 误差: VF: ±0.10V, Φ: ±15%, 其它: ±5%

7. Luminous Flux Bins Chart/亮度等级(Ta = 25℃)

Bin	AF	AG	АН
Min	13	17	22
Max	17	22	28

Notes/备注: Rank error/分档误差: Φ: ±15%



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8. Chromaticity Coordinates Ranks /色坐标等级(IF=30mA Ta=25°C)

色坐标误差: ±0.01

Wb9	X	0.2901	0.2982	0.3028	0.2957
	Y	0.2870	0.3005	0.2859	0.2747
Wb12	X	0.2982	0.3063	0.3097	0.3028
	Y	0.3005	0.3141	0.2977	0.2859

9. CIE 1931 Chromaticity diagram/CIE1931 图(IF=30mA Ta=25℃)

₩b9

0.32



0.28

0.26

0.28 0.30 0.32



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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

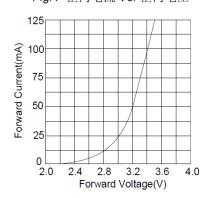


Fig.2 相对亮度 Vs. 正向电流

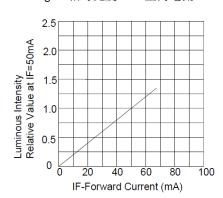


Fig.3 正向电流 Vs. 环境温度

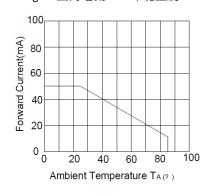


Fig.4 相对亮度 Vs. 环境温度

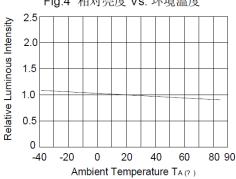


Fig.5相对亮度Vs波长

