



SMD SPECIFICATION

型号: PLCC4RGBCT-CA



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

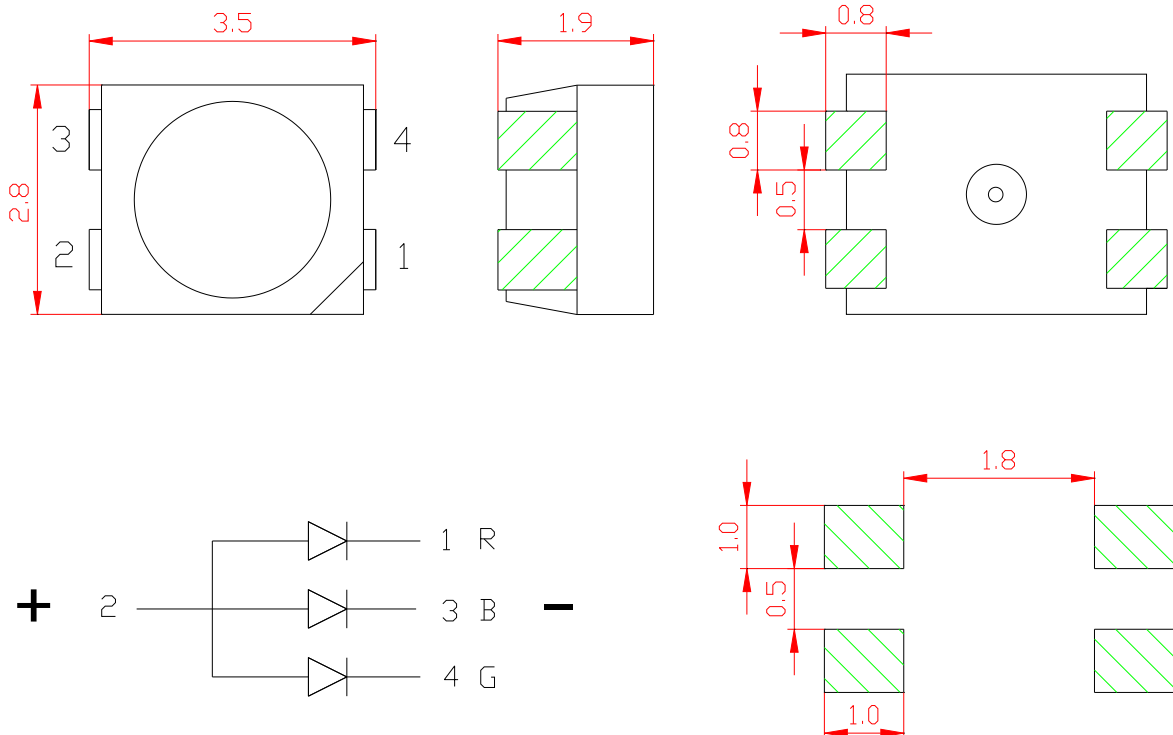
1、Features/特征:

- Emitting Color/发光颜色: Red/Green/Blue/红色/绿色/蓝色
- Lens Type/封装特性 Diffused/磨砂
- Device Outline/外形特征: 3.5×2.8×1.9 (unit:mm)
- RoHS compliant/符合 RoHS 标准

2、Applications/应用:

- Backlight for Mobile, Machine Vision, LCD Display/手机、电话、显示屏背光源
- Backlight in Dashboard and switch of Automive/汽车仪表盘、记程器背光源

3、Outline Dimensions/产品外形尺寸 (units:mm) :



Notes: (备注)
Tolerance is ± 0.1mm(公差± 0.1mm)

参考焊盘尺寸



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4、Absolute maximum ratings/极限参数 (Ta = 25°C):

Parameter 参数	Color 颜色	Symbol 符号	Values 数值	Unit 单位
Power Dissipation 损耗功率	Red	Pd	60	mW
	Green		85	
	Blue		90	
Reverse Voltage 反向电压	Red	VR	5	V
	Green		5	
	Blue		5	
Pulse Current 正向峰值电流 ^[1]	Red	Ifp	60	mA
	Green		60	
	Blue		60	
Forward Current 正向工作电流	Red	Ifm	25	mA
	Green		25	
	Blue		25	
Operating Temperature 工作温度范围	Red	Topr	- 40 ~ +85	°C
	Green			
	Blue			
Storage Temperature 储存温度范围	Red	Tstr	- 40 ~ +100	°C
	Green			
	Blue			

Notes/备注: [1]. 0.1ms pulse width, 1/10 Duty. / [1] 脉冲宽度0.1ms, 占空比1/10。



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5、Electrical and optical characteristics/光电参数 (Ta = 25°C):

Parameter 参数	Color 颜色	Symbol 符号	Test Condition 测试条件	Value 参数 ^[1]			Unit 单位
				Min	Typ	Max	
Forward Voltage 正向电压	Red	V _F	I _F = 20mA	1.6	2.0	2.4	V
	Green		I _F = 12mA	2.6	3.0	3.6	
	Blue			2.6	3.0	3.6	
Reverse Current 反向电流	Red	I _R	V _R = 5V	---	---	10	μA
	Green			---	---	10	
	Blue			---	---	10	
Dominate Wavelength 主波长	Red	λ _d	I _F = 20mA	615	622	630	Nm
	Green		I _F = 12mA	515	523	535	
	Blue			465	470	480	
Spectral Line half-width 半波长宽度	Red	Δλ	I _F = 20mA	---	---	24	Nm
	Green		I _F = 12mA	---	---	38	
	Blue			---	---	28	
Luminous Intensity 发光强度	Red	I _v	I _F = 20mA	190	300	480	Mcd
	Green		I _F = 12mA	440	660	1000	
	Blue			100	140	250	
Viewing Angle 发光指向角	Red	2θ 1/2		---	120	---	Deg.
	Green						
	Blue						

Notes/备注: [1] Tolerance 误差: V_F: ±0.10V, I_v: ±15%, 其它: ±5%



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6、Typical electrical/optical characteristic curves/光电特性曲线:

Fig.1 正向电流 Vs. 正向电压

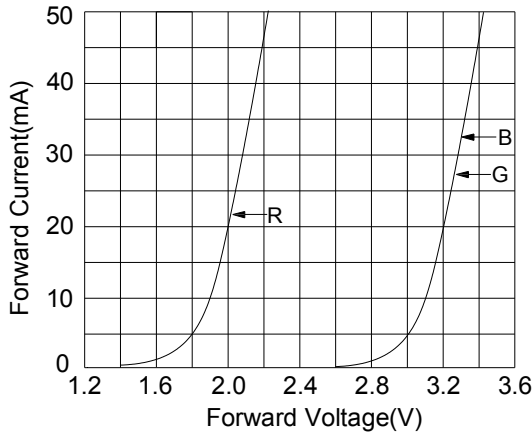


Fig.2 相对亮度 Vs. 正向电流

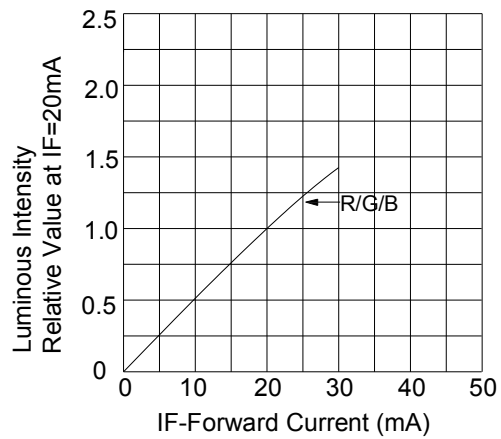


Fig.3 正向电流 Vs. 环境温度

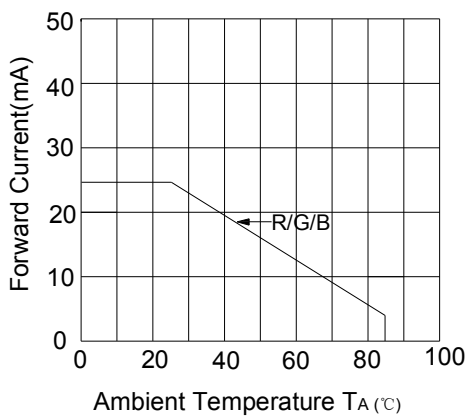


Fig.4 相对亮度 Vs. 环境温度

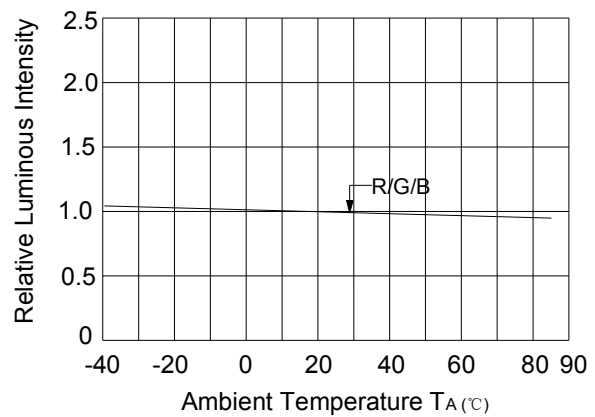
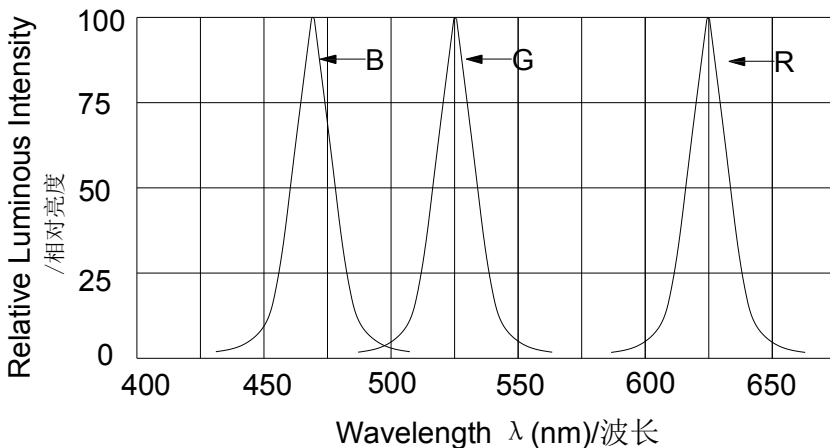


Fig.5 相对亮度 Vs. 波长



SPATIAL DISTRIBUTION

