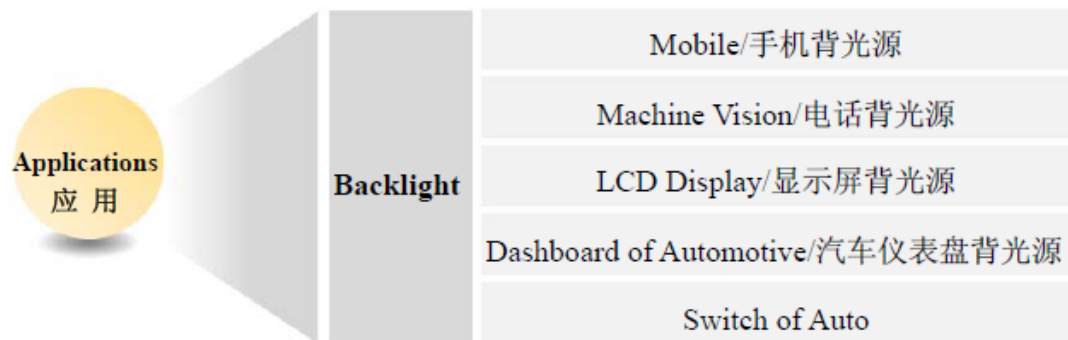




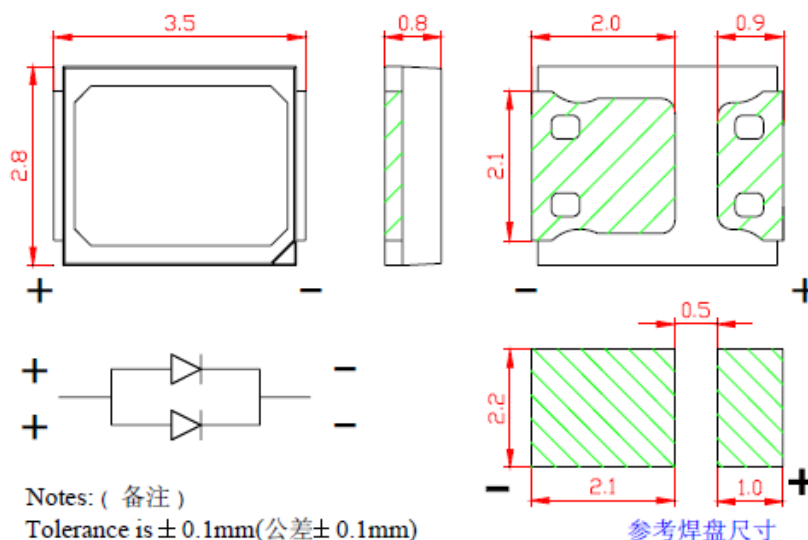
1、Features/特 征:

- Emitting Color/发光颜色: Green/绿色
- Lens Type/封装特性: Water Clear/无色透明
- Device Outline/外形特征: 3.5×2.8×0.8 (unit:mm)
- HBM ESD:Class 2/人体抗静电指标: Class 2
- Pb-Free/无铅
- RoHS compliant/符合 RoHS 标准

2、Applications/应 用:



3、Outline Dimensions/产品外形尺寸:





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

Parameter 参数	Symbol 符号	Value 参数	Unit 单位
Power Dissipation 损耗功率	Pd	200	mW
Reverse Voltage 反向电压	VR	7	V
Pulse Current 正向峰值电流 ^[1]	IFp	100	mA
Forward Current 正向工作电流	IFm	60	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

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

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

Parameter 参数	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	VF	IF = 60mA	2.8	3.2	3.6	V
Reverse Current 反向电流	IR	VR = 7V	—	—	30	μ A
Dominate Wavelength 主波长	λ d	IF = 60mA	500	—	510	nm
Spectral Line half-width 半波宽度	Δ λ	IF = 60mA	—	30	—	nm
Luminous Intensity 发光强度	Iv	IF = 60mA	—	3000	—	mcd
Viewing Angle 发光指向角	2 θ 1/2	IF = 60mA	—	120	—	Deg.

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



6、Product Ranks/产品分档范围:

Luminous Intensity / 发光强度 (mcd)
(Ta=25°C)

Rank	V2	W1
Iv	2550-3000	3000-3500

Wavelength / 波长 (nm)
(Ta=25°C)

Rank	G4	G5	G6
WLD	500-503	503-506	506-509

Voltage / 电压 (V)
(Ta=25°C)

Rank	N	P	Q	R	S	T	U	V
Vf	2.8-2.9	2.9-3.0	3.0-3.1	3.1-3.2	3.2-3.3	3.3-3.4	3.4-3.5	3.5-3.6

Notes/备注: Rank error/分档误差: Iv: ±15%, λ d: ±1nm, Vf: ±0.10v



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

Fig.1 正向电流 Vs. 正向电压

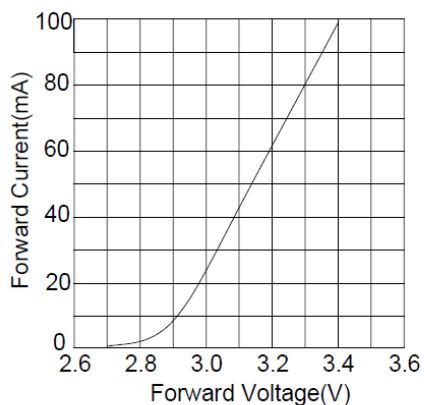


Fig.2 相对亮度 Vs. 正向电流

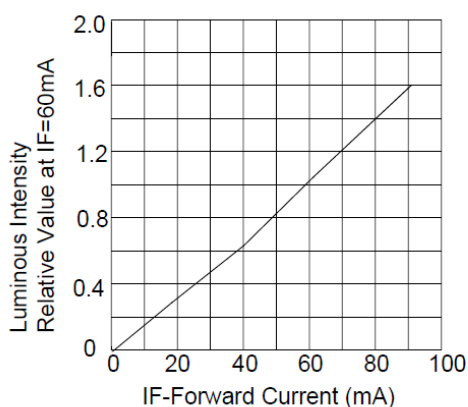


Fig.3 正向电流 Vs. 环境温度

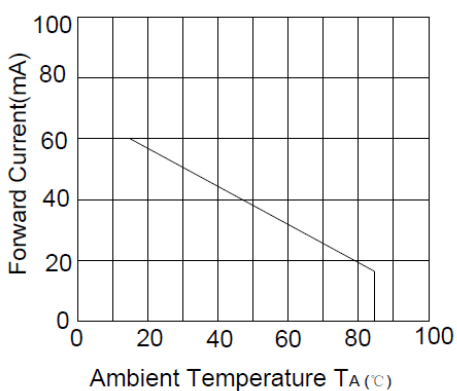


Fig.4 相对亮度 Vs. 环境温度

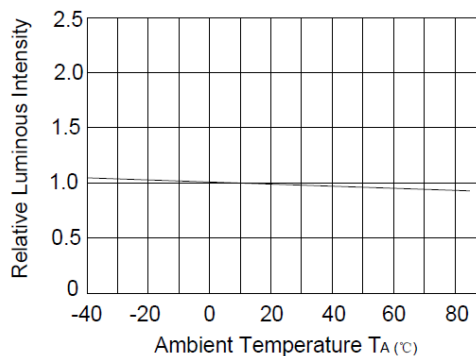
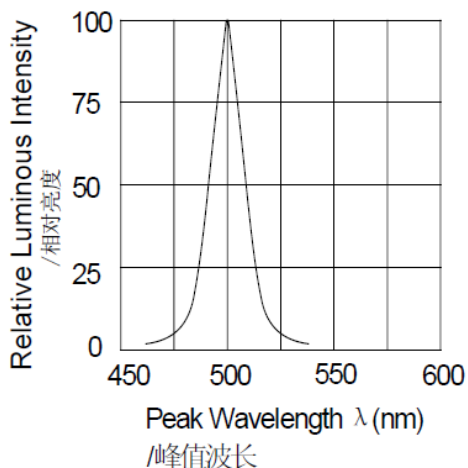
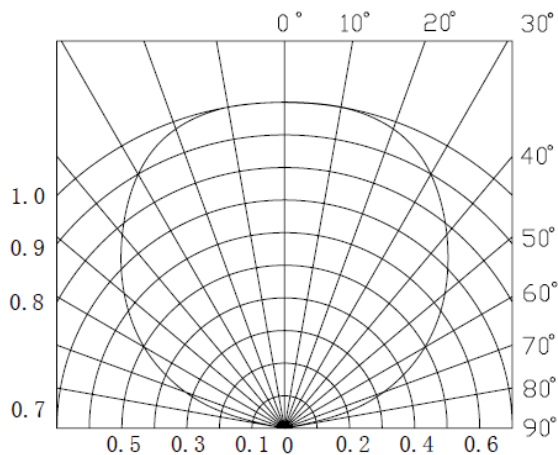


Fig.5 相对亮度 Vs. 波长



SPATIAL DISTRIBUTION





8、Reliability Analysis/可靠性试验

8.1 Test Items And Results/测试项目和判据

No.	Item/项目	Test Condition/测试条件	Spec. / 引用标准	Q'ty/数量	Time/时间	Standard/判定
1	IR Reflow (Reflow Soldering) 回流焊接	Tsld=220°C, 10sec	GB/T 4937, II, 2.2	20	2times	ALL PASS
2	Solder ability 可焊性	Tsld=235±5°C, 3sec	GB/T 4937, II, 2.1	20	1times Over 95%	ALL PASS
3	Temperature Cycle 高低温循环	-40°C——100°C 30min ~ 30min The cut is not more than 5 min	GB/T 4937, III, 1	20	50cycles	ALL PASS
4	Moisture Resistance Cyclic 湿热循环	25°C/12hr~ 55°C/12hr 95%RH	GB/T 4937, III, 4	20	6cycles	ALL PASS
5	High Temperature Storage 高温储存	Ta=100°C	GB/T 4937, III, 2	20	1000hrs	ALL PASS
6	Low Temperature Storage 低温储存	Ta=-40°C	GB/T 4937, III, 2	20	1000hrs	ALL PASS
7	Steady State perating Life 电耐久性	IF=60mA Ta=25°C	GB/T 18904.3 Part A	20	1000hrs	ALL PASS

8.2 Criteria For Judging Damage/判断标准

Item/项目	Symbol/符号	Test conditions /测试条件	Criteria for Judgement /判断标准	
			Min./最小值	Max./最大值
Luminous Intensity/亮度	Iv	IF=60mA	L.S.L *0.7	/
Forward Voltage/正向电压	VF	IF=60mA	/	U.S.L*1.1
Reverse current/反向电流	IR	VR=7v	/	U.S.L*2

*U.S.L.: Upper Standard Level / 上限

*L.S.L.: Lower Standard Level / 下限