

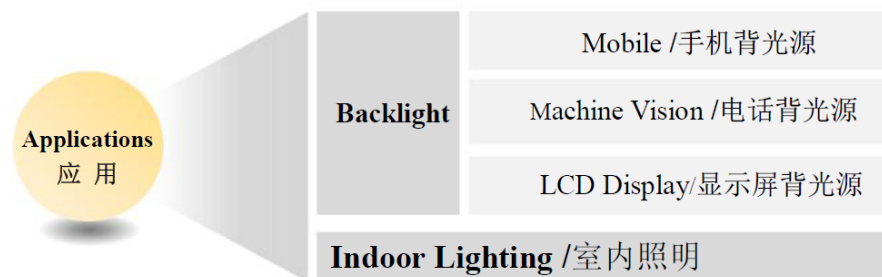


**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

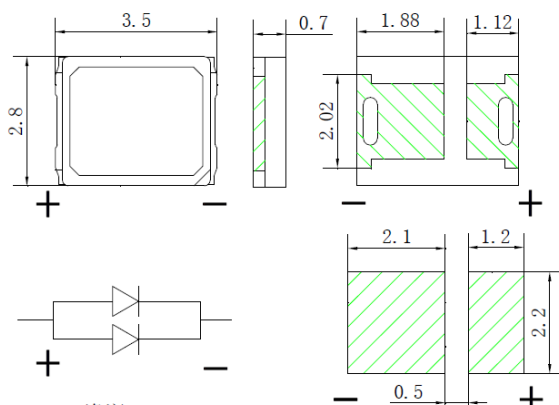
### 1、Features/特征:

- Emitting Color/发光颜色: White/白色
- Lens Type/封装特性: Yellow Diffused/黄色散射
- Device Outline/外形特征: 3.5×2.8×0.7 (unit:mm)
- HBM ESD:2000V/人体抗静电指标: 2000V
- Pb-Free/无铅
- RoHS compliant/符合 RoHS 标准

### 2、Applications/应用:



### 3、Outline Dimensions/产品外形尺寸:



Notes(备注):  
Tolerance is  $\pm 0.1\text{mm}$  (公差 $\pm 0.1\text{mm}$ )

参考焊盘尺寸



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	1000	mW
Reverse Voltage 反向电压	VR	7	V
Pulse Current 正向峰值电流 <sup>[1]</sup>	IFp	300	mA
Forward Current 正向工作电流	IFm	200	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
Junction Temperature 结温	Tj	125	°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 <sup>[1]</sup>			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	VF	IF = 150mA	2.7	---	3.1	V
Reverse Current 反向电流	IR	VR = 7V	---	---	50	μ A
Color Correlated Temperature 色温	CCT	IF = 150mA	4700	---	5300	K
Luminous Flux 光通量	Φ	IF = 150mA	60	---	70	Lm
color rendering index 显色指数	Ra	IF = 150mA	85	---	---	---
Thermal Resistance <sup>[2]</sup> 热阻	Rthj-s	IF = 150mA	---	30	---	°C/w
Viewing Angle 发光指向角	2 θ 1/2	IF = 150mA	---	120	---	Deg.

Notes/备注: [1] Tolerance 误差: VF: ±0.10V, Φ: ±15%, 其它: ±5%; [2] Thermal Resistance is not measured value, the data is only for reference. / [2]热阻非实测值, 数据仅供参考。



6、Product Ranks/产品分档范围:

亮度分档标准		电压分档标准	
光通量 $\Phi$ (Lm)	代表符号	正向电压 $V_F$ 值(V)	代表符号
IF=150mA		IF=150mA	
60-70	L60	2.70-2.80	M
		2.80--2.90	N
		2.90--3.00	P
		3.00—3.10	Q

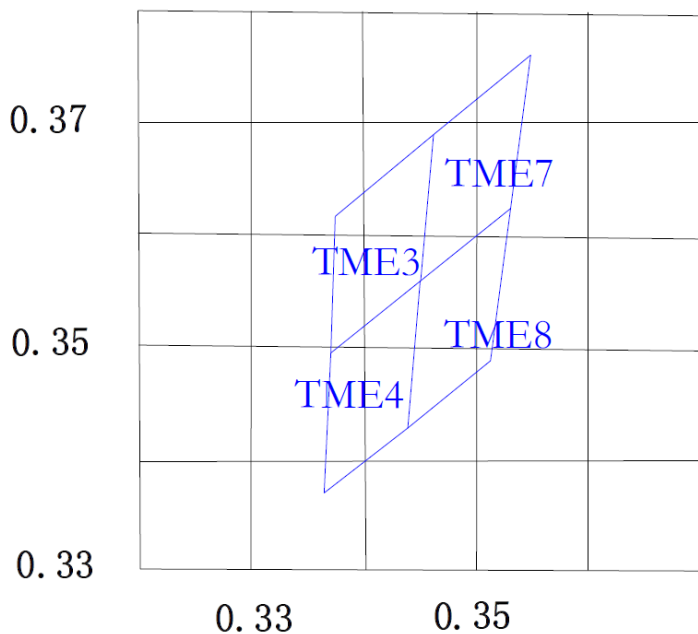
Notes/备注: Rank error/分档误差:  $V_F$ :  $\pm 0.10V$ ,  $\Phi$ :  $\pm 15\%$

色坐标分档:

代码	轴	参数				代码	轴	参数			
TME3	X	0.3376	0.3464	0.3452	0.3372	TME4	X	0.3372	0.3452	0.3441	0.3366
	Y	0.3616	0.3689	0.3558	0.3494		Y	0.3494	0.3558	0.3427	0.3369
TME7	X	0.3464	0.3551	0.3533	0.3452	TME8	X	0.3452	0.3533	0.3515	0.3441
	Y	0.3689	0.376	0.3623	0.3558		Y	0.3558	0.3623	0.3487	0.3427

色坐标误差:  $\pm 0.005$

Diagram





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

Fig.1 正向电流 Vs. 正向电压

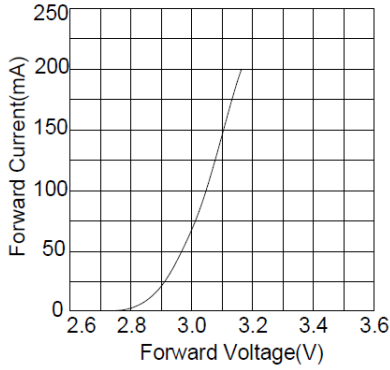


Fig.2 相对亮度 Vs. 正向电流

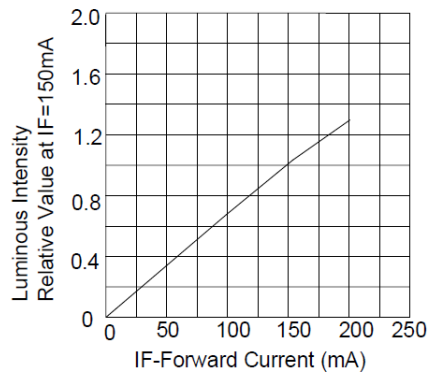


Fig.3 正向电流 Vs. 环境温度

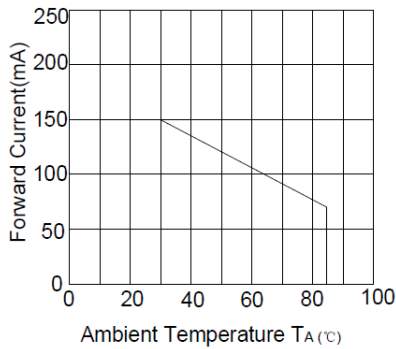
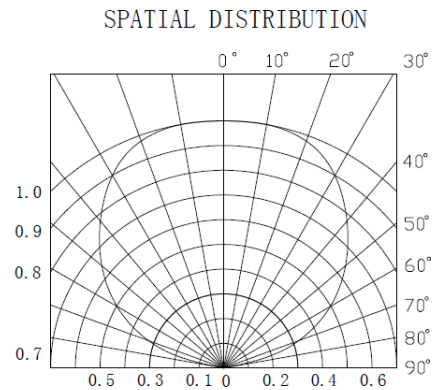
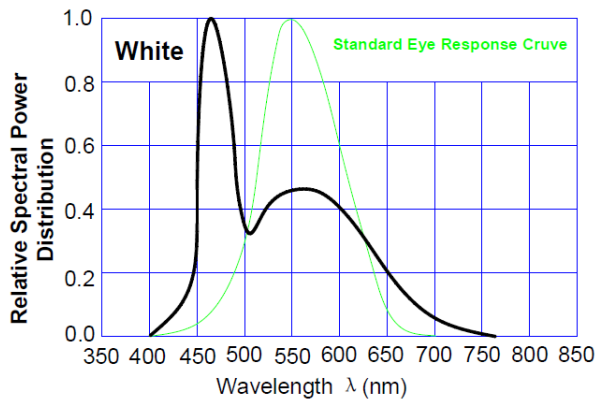
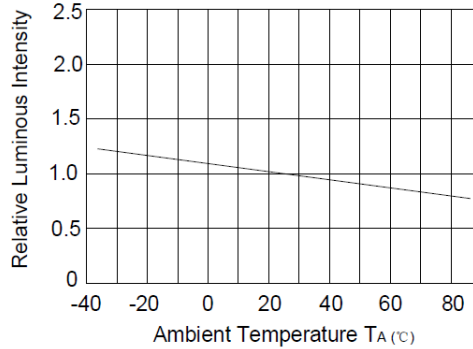


Fig.4 相对亮度 Vs. 环境温度





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=260°C T=10sec	JESD22-B106	20	3times	ALL PASS
2	Solder ability 可焊性	Tsld=235±5°C, 3sec	JESD22-B102	20	1times Over 95%	ALL PASS
3	Temperature Cycle 高低温循环	100°C 30mins ↑ ↓ 5mins -40°C 30mins	JESD22-A104	20	100cycles	ALL PASS
4	High Temperature High Humidity 高温高湿	85°C/85%RH	JESD22-A118	20	168hrs	ALL PASS
5	High Temperature Storage 高温储存	Ta=100°C(-0/+10°C)	JESD22-A103	20	1000hrs	ALL PASS
6	Low Temperature Storage 低温储存	Ta=-40°C(-10°C/+0)	JESD22-A119	20	1000hrs	ALL PASS
7	Steady State perating Life 电耐久性	Ta=25°C±5°C IF=150mA	JESD22-A108	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=150mA	L.S.L *0.7	/
Forward Voltage/正向电压	VF	IF=150mA	/	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