



SUNSHINE ELECTRONICS TRADING LIMITED

SEL-2835-Y59-2V060

Features

Emitting Color: Yellow

Lens Type: Yellow Diffused

Device Outline: 3.5x2.8x0.8 mm

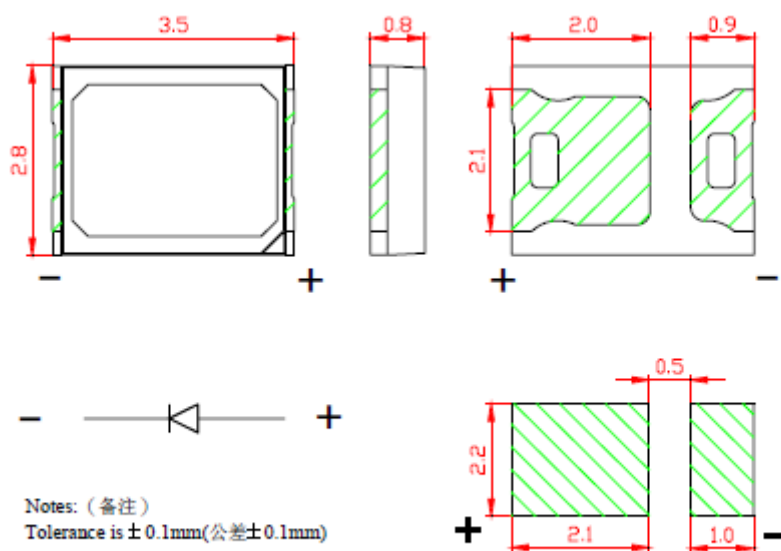
HBM ESD: Class 2

Pb-Free

RoHS compliant: RoHS

Application

Backlight of Mobile, Machine Vision. LCD Display, Backlight in Dashboard and switch of Automotive



参考焊盘尺寸





SPECIFICATION

MODEL			
Absolute Maximum Ratings	Power Dissipation (Pd), mW	200	
	Forward Current (Ifm), mA	60	
	Pulse Forward Current (If), mA	100	
	Reverse Voltage, (VR), IR = 60 mA	>7	
	Operating Temperature (Topr), °C	up -40 to +85	
	Storage Temperature (Tstg), °C	up -40 to +100	
Electro-Optical Characteristics	Forward Voltage (IF=60mA), V	Min.	1.8
		Typ.	-
		Max.	2.4
	Reverse Voltage (Vr=7V), mA	Min.	-
		Max.	30
	Half Intensity Angle (IF=60mA), deg.	120	
Color, Luminous intensity	Emitted color	yellow	
	Spectral Line half-width, nm	15	
	Dominate Wavelength, nm	592	
	Luminous intensity (IF=60mA), mcd	Min.	700
		Typ.	1600
		Max.	-



Product Ranks

Luminous Intensity / 发光强度 (mcd)

(Ta=25°C)

Rank	S	T	U1	U2
Iv	770~1100	1100~1520	1520-1900	1900-2130

Wavelength / 波长 (nm)

(Ta=25°C)

Rank	Y1	Y2	Y3	Y4	Y5
WLD	582-585	585-588	588-591	591-594	594-597

Voltage / 电压 (V)

(Ta=25°C)

Rank	C	D	E	F	G	H
Vf	1.8-1.9	1.9-2.0	2.0-2.1	2.1-2.2	2.2-2.3	2.3-2.4

Notes/备注: Rank error/分档误差: Iv: $\pm 15\%$, λd : $\pm 1\text{nm}$, Vf: $\pm 0.10\text{v}$

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

Fig.1 正向电流 Vs. 正向电压

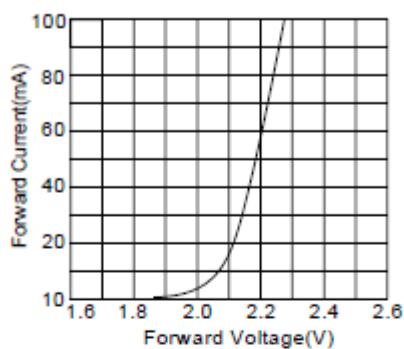


Fig.2 相对亮度 Vs. 正向电流

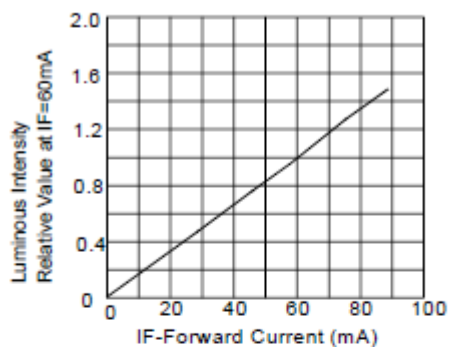


Fig.3 正向电流 Vs. 环境温度

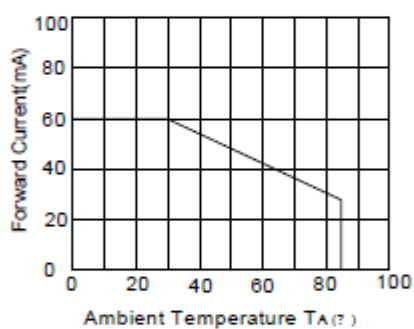


Fig.4 相对亮度 Vs. 环境温度

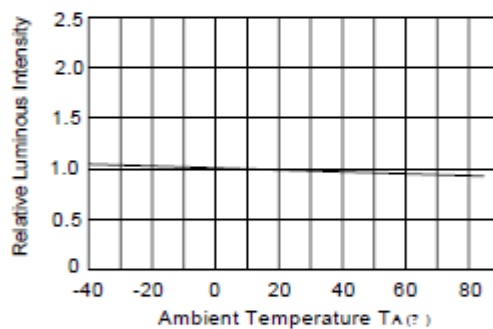
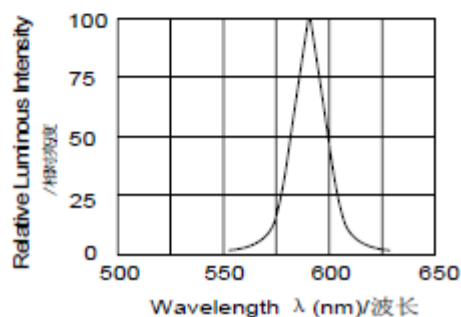
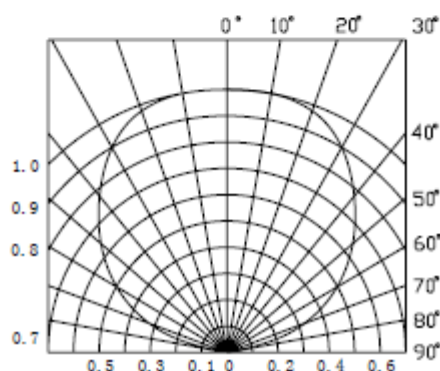


Fig.5 相对亮度 Vs. 波长



SPATIAL DISTRIBUTION



**Reliability Analysis/可靠性试验****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℃, 10sec	GB/T 4937, II, 2.2	20	2times	ALL PASS
2	Solder ability 可焊性	Tsld=235±5℃, 3sec	GB/T 4937, II, 2.1	20	1times Over 95%	ALL PASS
3	Temperature Cycle 高低温循环	-40℃——100℃ 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℃/12hr~ 55℃/12hr 95%RH	GB/T 4937, III, 4	20	6cycles	ALL PASS
5	High Temperature Storage 高温储存	Ta=100℃	GB/T 4937, III, 2	20	1000hrs	ALL PASS
6	Low Temperature Storage 低温储存	Ta=-40℃	GB/T 4937, III, 2	20	1000hrs	ALL PASS
7	Steady State perating Life 电耐久性	IF=60mA Ta=25℃	GB/T 18904.3 Part A	20	1000hrs	ALL PASS

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

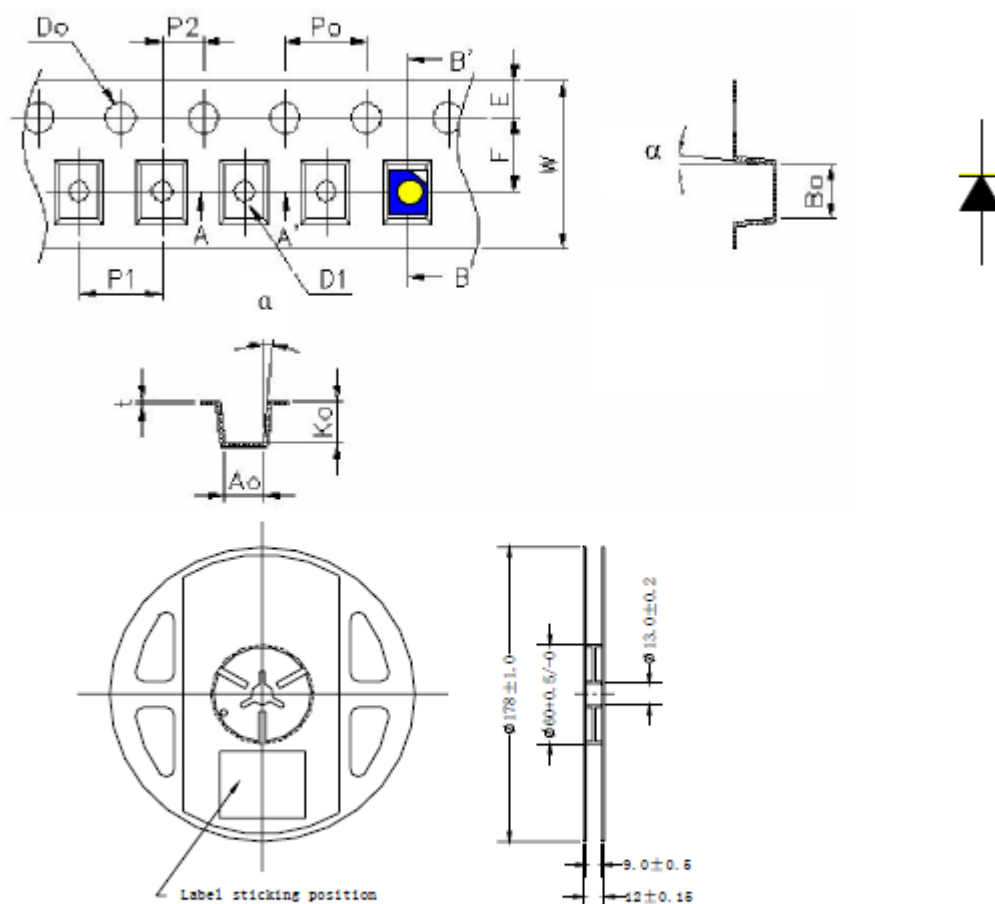


Specification of Packing / 包装规格

Taping and Orientation / 编带和方向

Quantity/数量: 3000units/reel

Diameter/直径: 178 mm



Item/项目	Spec/数值	Tol.(+/-)/误差	Item/项目	Spec/数值	Tol.(+/-)/误差
W	8.00	±0.10	P2	2.00	±0.05
E	1.75	±0.10	T	0.20	±0.02
F	3.50	±0.010	A0	3.00	±0.10
D0	1.55	±0.05	B0	3.75	±0.10
D1	1.10	±0.1	K0	1.25	±0.10
P0	4.00	±0.1	α	Max 5°	