



SUNSHINE ELECTRONICS TRADING LIMITED

SEL-2835-YP-3V060

Features

Emitting Color: White

Lens Type: Yellow Diffused

Device Outline: 3.5x2.8x0.65 mm

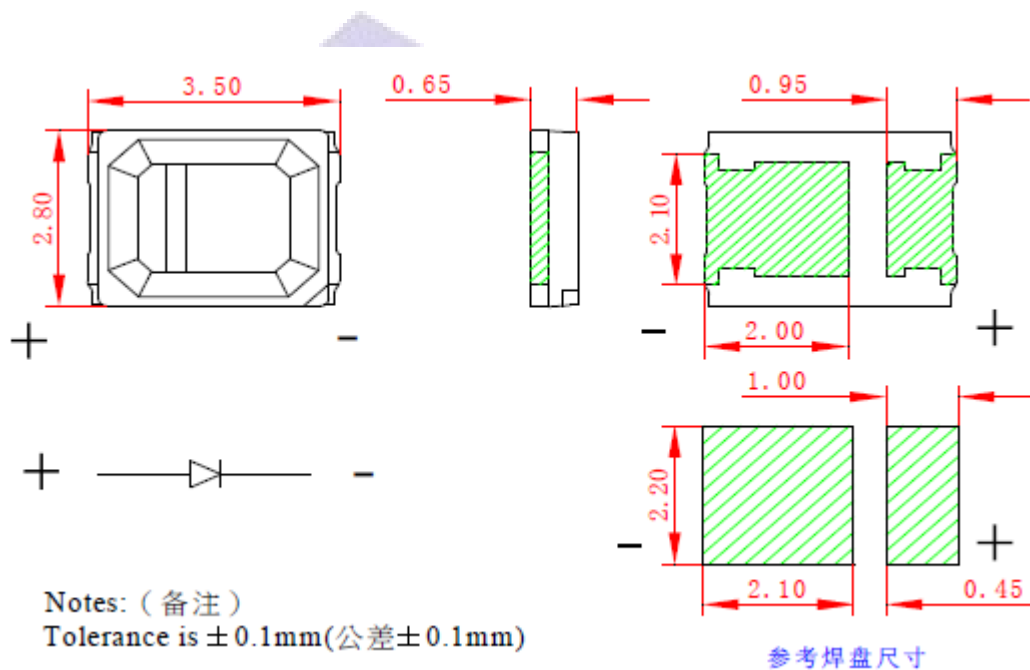
HBM ESD: Class 2

Pb-Free

RoHS compliant: RoHS

Application

Backlight of Mobile, Machine Vision. LCD Display, Indoor Lighting, meat tubes





SPECIFICATION

MODEL			
Absolute Maximum Ratings	Power Dissipation (Pd), mW	200	
	Forward Current (Ifm), mA	120	
	Pulse Forward Current (If), mA	60	
	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.	2,9
		Typ.	3.2
		Max.	3.5
	Reverse Voltage (Vr=7V), mA	Min.	-
		Max.	30
	Half Intensity Angle (IF=60mA), deg.	120	
	Junction Temperature (Tj), °C	115	
	Thermal Resistance Rthj-s IF =60mA, °C/w	30	
Color, Luminous flux and CRI	Emitted color	white	
	Chromaticity Coordinates CIE-X	0.368-0.410	
	Chromaticity Coordinates	0.304-0.346	
	Luminous flux (IF=60mA), lm	Min.	-
		Typ.	15
		Max.	-

**Product Ranks/产品分档范围:**

亮度分档标准		电压分档标准	
光通量 Φ (Lm)	代表符号	正向电压 V_F 值(V)	代表符号
IF=60mA		IF=60mA	
12-14	L12	2.90-3.00	P
14-16	L14	3.00-3.10	Q
16-18	L16	3.10-3.20	R
18-20	L18	3.20-3.30	S
		3.30-3.40	T
		3.40-3.50	U

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



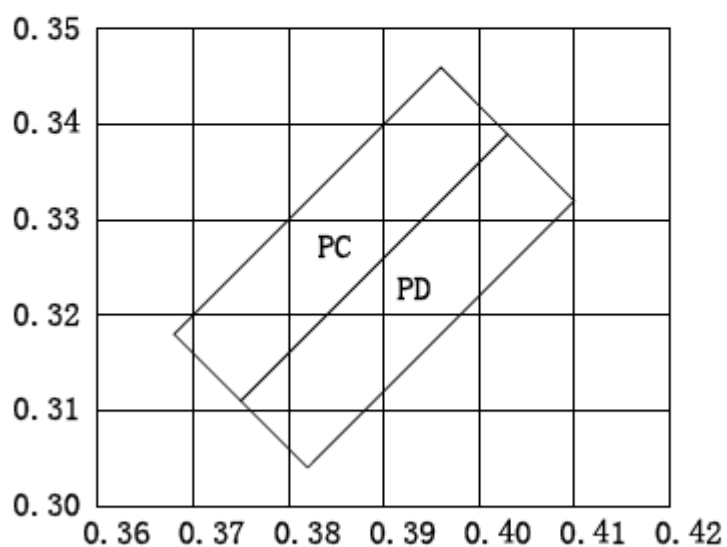


色坐标分档:

色坐标误差: ± 0.005

代码	轴	参数				代码	轴	参数			
PC	X	0.375	0.368	0.396	0.403	PD	X	0.382	0.375	0.403	0.410
	Y	0.311	0.318	0.346	0.339		Y	0.304	0.311	0.339	0.332

Diagram



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

Fig.1 正向电流 Vs. 正向电压

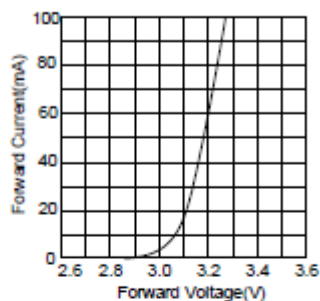


Fig.2 相对亮度 Vs. 正向电流

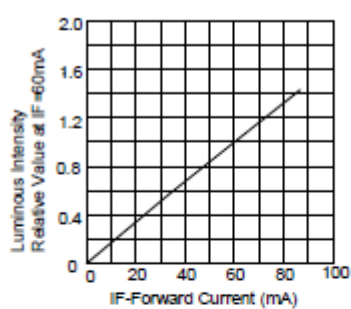


Fig.3 正向电流 Vs. 环境温度

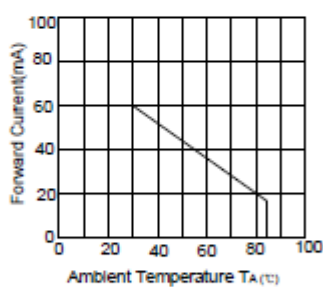
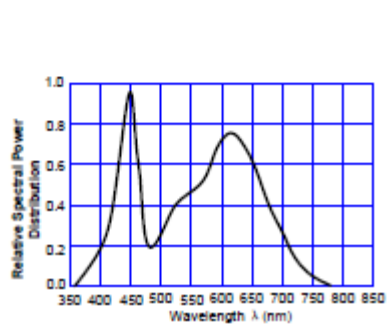
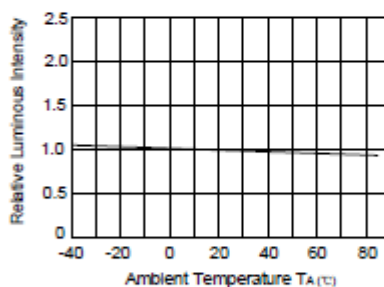
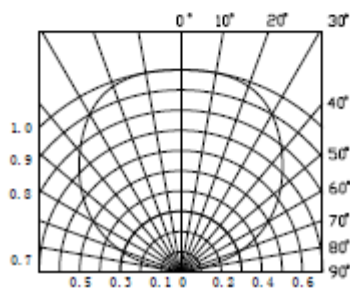


Fig.4 相对亮度 Vs. 环境温度



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



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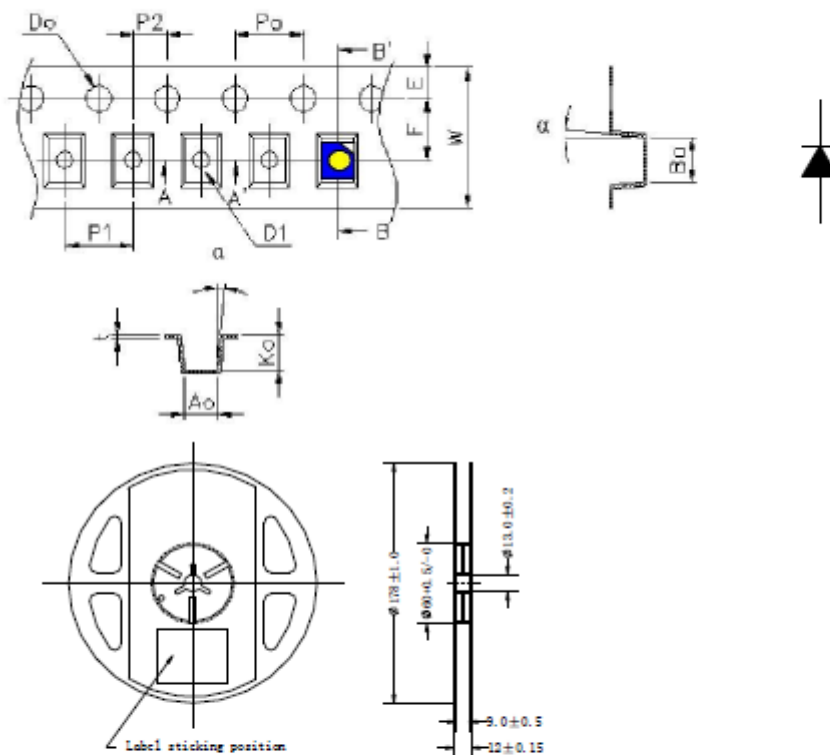
SEL-2835-YP-3V060

Specification of Packing / 包装规格

Taping and Orientation / 编带和方向

Quantity / 数量 : 3000 units/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°	