



SUNSHINE ELECTRONICS TRADING LIMITED

Part No: SEL-2835-UV375-3V150



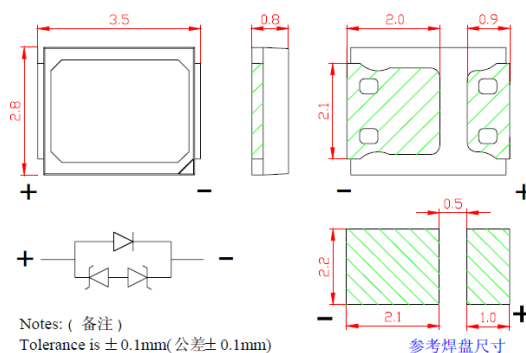
1、Features/特 征:

- Emitting Color/发光颜色: Purple /紫色
- Lens Type/封装特性: Water Clear/无色透明
- Device Outline/外形特征: $3.5 \times 2.8 \times 0.8$ (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:

 Applications 应用	工商业照明 Industrial and commercial lighting	Money detector lamp/验钞灯
		Mosquito killer/灭蚊灯
		Stage lamp/舞台灯
	医疗照明 Medical lighting	nail polish lamp/美甲灯
		Sterilizing lamp/杀菌消毒灯
Plant growth, etc/植物生长等		

3、Outline Dimensions/产品外形尺寸:





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

Parameter 参数	Symbol 符号	Value 参数	Unit 单位
Power Dissipation 损耗功率	Pd	500	mW
Reverse Voltage 反向电压	VR	5	V
Pulse Current 正向峰值电流 ^[1]	IFp	200	mA
Forward Current 正向工作电流	IFm	150	mA
Operating Temperature 工作温度范围	Topr	- 40 ~ +85	℃
Storage Temperature 储存温度范围	Tstr	- 40 ~ +100	℃

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℃):

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 参数			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	VF	IF = 150mA	3.0	3.6	4.0	V
Reverse Current 反向电流	IR	VR = 5V	—	—	30	μA
Peak Wavelength 峰值波长	λp	IF=150mA	370	—	375	nm
Spectral Line half-width 半波宽度	Δλ	IF = 150mA	—	13	—	nm
Radiant flux 辐射通量	Φe	IF = 150mA	72.8	—	145	mw
Viewing Angle 发光指向角	2θ 1/2	IF = 150mA	—	120	—	Deg.

Notes/备注: Tolerance 误差: VF: ±0.10V, Φe: ±15%, 其它: ±5%



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6、Product Ranks/产品分档范围:

Radiant flux /辐射通量 (mw)

(Ta=25℃)

Rank	72.8-102mw	102-145mw
Φ_e	72.8-102	102-145

Wavelength / 波长 (nm)

(Ta=25℃)

Rank	UV2
WLD	370-375

Voltage / 电压 (V)

(Ta=25℃)

Rank	Q	R	S	T	U	V	W	X	Y	Z
Vf	3.0-3.1	3.1-3.2	3.2-3.3	3.3-3.4	3.4-3.5	3.5-3.6	3.6-3.7	3.7-3.8	3.8-3.9	3.9-4.0

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



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

Fig.1 正向电流 Vs. 正向电压

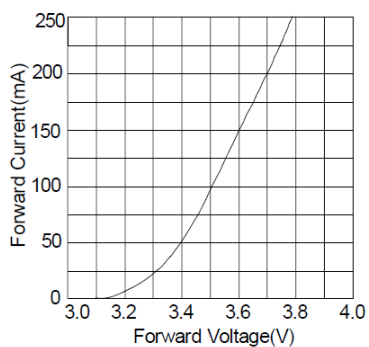


Fig.2 辐射通量 Vs. 正向电流

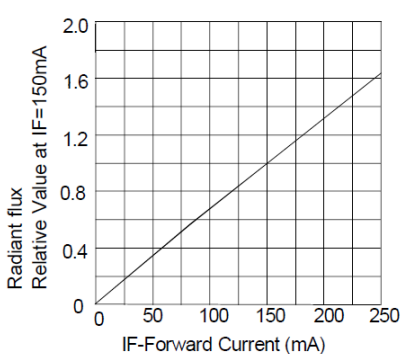


Fig.3 正向电流 Vs. 环境温度

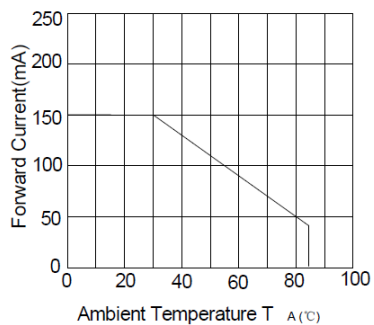


Fig.4 辐射通量 Vs. 环境温度

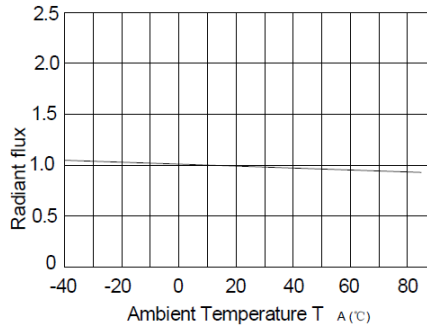
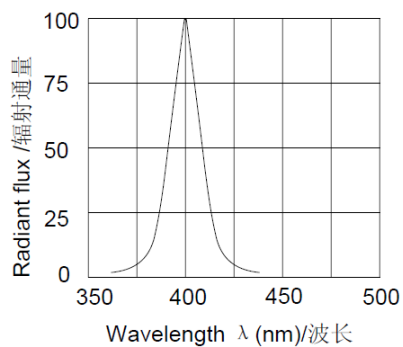
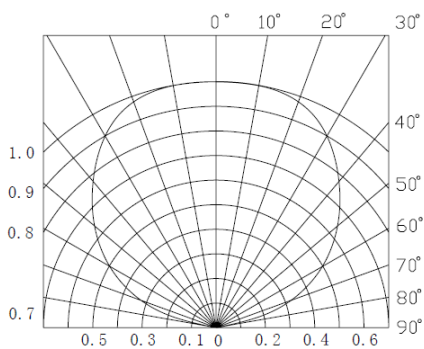


Fig.5 辐射通量 Vs. 波长



SPATIAL DISTRIBUTION





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8、Relibility 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℃, 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=150mA Ta=25℃	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
Radiant flux /辐射通量	Φ_e	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=5v	/	U.S.L*2

*U.S.L.: Upper Standard Level / 上限

*L.S.L.: Lower Standard Level / 下限



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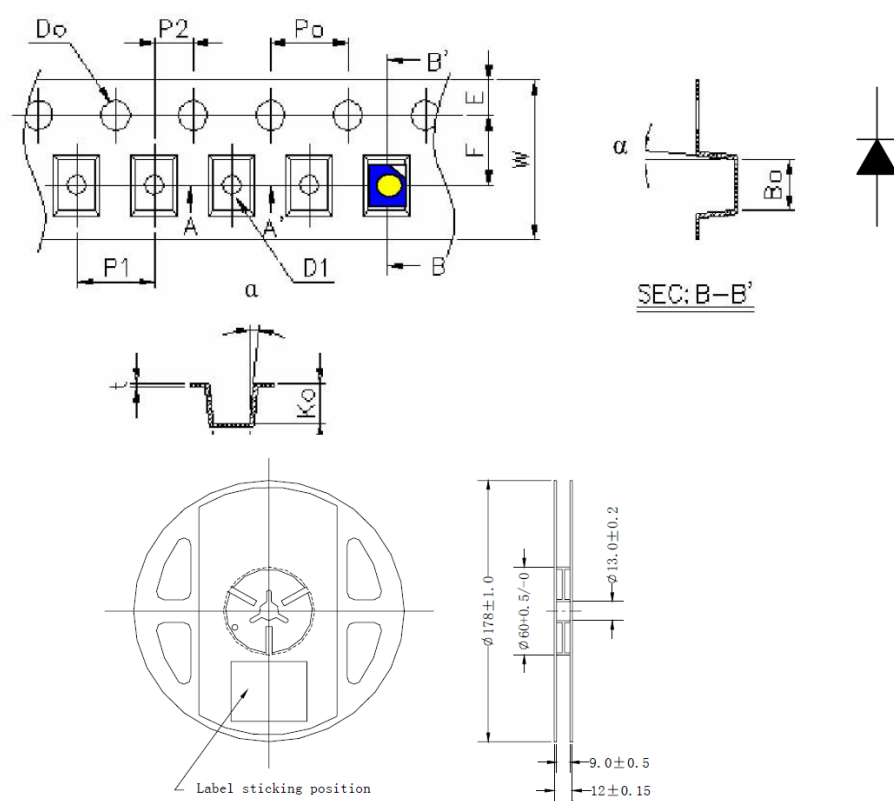
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9、Specification of Packing /包装规格

9.1 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°	