



SUNSHINE ELECTRONICS TRADING LIMITED

SEL-2835-(4730-13000)-3V150/70-75

Features

Emitting Color: White

Lens Type: Yellow Diffused

Device Outline: 3.5x2.8x0.7 mm

HBM ESD: Class 2

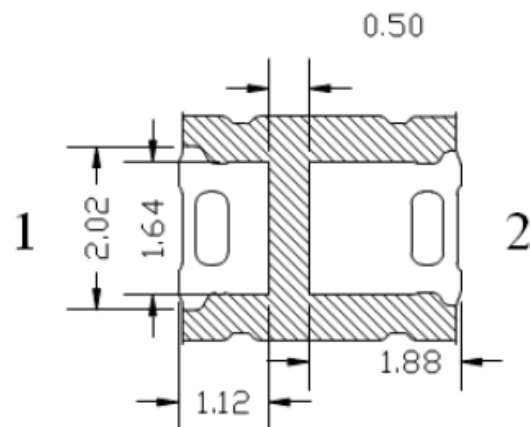
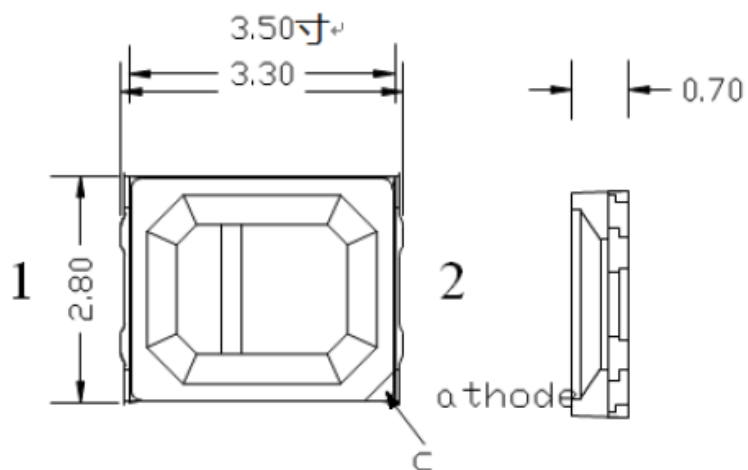
Pb-Free

RoHS compliant: RoHS

Application

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

Outline Dimensions/产品外形尺寸:





SPECIFICATION

MODEL			
Absolute Maximum Ratings	Power Dissipation (Pd), mW	500	
	Forward Current (Ifm), mA	150	
	Pulse Forward Current (If), mA	200	
	Reverse Voltage, (VR), IR = 150 mA	>7	
	Operating Temperature (Topr), °C	up -40 to +85	
	Storage Temperature (Tstg), °C	up -40 to +100	
Electro-Optical Characteristics	Forward Voltage (IF=150mA), V	Min.	2.9
		Typ.	3.1
		Max.	3.4
	Reverse Voltage (Vr=7V), mA	Min.	-
		Max.	30
	Half Intensity Angle (IF=150mA), deg.	120	
	Junction Temperature (Tj), °C	115	
	Thermal Resistance Rthj-s IF =150mA, °C/w	30	
Color, Luminous flux and CRI	Emitted color	white	
	CCT, K	4730-13000	
	CRI (Typ.)	80	
	Luminous flux (IF=150mA), lm	Min.	65
		Typ.	70
		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=150mA		IF=150mA	
65-70	L65	2.90-3.00	P
70-75	L70	3.00-3.10	Q
		3.10-3.20	R
		3.20-3.30	S
		3.30-3.40	T

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

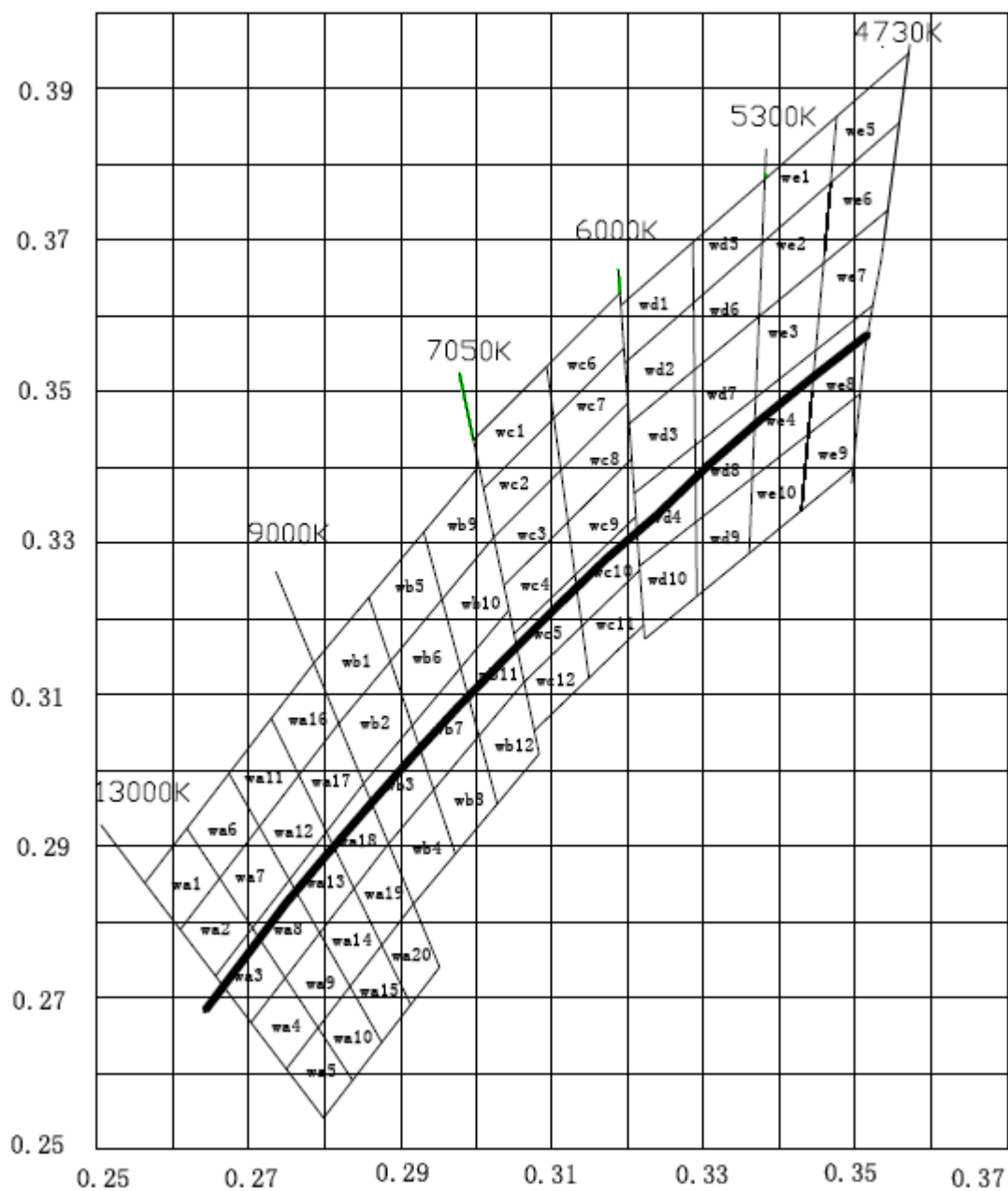
代码	轴	参数				代码	轴	参数			
Wa1	X	0.2568	0.2623	0.2666	0.2614	Wa2	X	0.2614	0.2666	0.2710	0.2661
	Y	0.2848	0.2920	0.2854	0.2786		Y	0.2786	0.2854	0.2788	0.2725
Wa3	X	0.2661	0.2710	0.2753	0.2708	Wa4	X	0.2708	0.2753	0.2796	0.2754
	Y	0.2725	0.2788	0.2723	0.2664		Y	0.2664	0.2723	0.2657	0.2602
Wa5	X	0.2754	0.2796	0.2842	0.2804	Wa6	X	0.2623	0.2679	0.2719	0.2666
	Y	0.2602	0.2657	0.2587	0.2538		Y	0.2920	0.2992	0.2922	0.2854
Wa7	X	0.2666	0.2719	0.2758	0.2710	Wa8	X	0.2710	0.2758	0.2798	0.2753
	Y	0.2854	0.2922	0.2852	0.2788		Y	0.2788	0.2852	0.2781	0.2723
Wa9	X	0.2753	0.2798	0.2838	0.2796	Wa10	X	0.2796	0.2838	0.2880	0.2842
	Y	0.2723	0.2781	0.2711	0.2657		Y	0.2657	0.2711	0.2637	0.2587
Wa11	X	0.2679	0.2735	0.2771	0.2719	Wa12	X	0.2719	0.2771	0.2807	0.2758
	Y	0.2992	0.3065	0.2990	0.2922		Y	0.2922	0.2990	0.2915	0.2852
Wa13	X	0.2758	0.2807	0.2844	0.2798	Wa14	X	0.2798	0.2844	0.2880	0.2838
	Y	0.2852	0.2915	0.2840	0.2781		Y	0.2781	0.2840	0.2766	0.2711
Wa15	X	0.2838	0.2880	0.2918	0.2880	Wa16	X	0.2735	0.2791	0.2823	0.2771
	Y	0.2711	0.2766	0.2687	0.2637		Y	0.3065	0.3138	0.3058	0.2990
Wa17	X	0.2771	0.2823	0.2856	0.2807	Wa18	X	0.2807	0.2856	0.2889	0.2844
	Y	0.2990	0.3058	0.2979	0.2915		Y	0.2915	0.2979	0.2899	0.2840
Wa19	X	0.2844	0.2889	0.2922	0.2880	Wa20	X	0.2880	0.2922	0.2957	0.2918
	Y	0.2840	0.2899	0.2820	0.2766		Y	0.2766	0.2820	0.2737	0.2687
Wb1	X	0.2791	0.2863	0.2892	0.2823	Wb2	X	0.2823	0.2892	0.2920	0.2856
	Y	0.3138	0.3224	0.3140	0.3058		Y	0.3058	0.3140	0.3055	0.2979
Wb3	X	0.2856	0.2920	0.2949	0.2889	Wb4	X	0.2889	0.2949	0.2977	0.2922
	Y	0.2979	0.3055	0.2971	0.2899		Y	0.2899	0.2971	0.2886	0.2820
Wb5	X	0.2863	0.2935	0.2960	0.2892	Wb6	X	0.2892	0.2960	0.2984	0.2920
	Y	0.3224	0.3311	0.3221	0.3140		Y	0.3140	0.3221	0.3131	0.3055
Wb7	X	0.2920	0.2984	0.3008	0.2949	Wb8	X	0.2949	0.3008	0.3032	0.2977
	Y	0.3055	0.3131	0.3042	0.2971		Y	0.2971	0.3042	0.2952	0.2886
Wb9	X	0.2935	0.3008	0.3028	0.2960	Wb10	X	0.2960	0.3028	0.3048	0.2984
	Y	0.3311	0.3398	0.3303	0.3221		Y	0.3221	0.3303	0.3208	0.3131



代码	轴	参数				代码	轴	参数			
Wb11	X	0.2984	0.3048	0.3068	0.3008	Wb12	X	0.3008	0.3068	0.3088	0.3032
	Y	0.3131	0.3208	0.3113	0.3042		Y	0.3042	0.3113	0.3018	0.2952
Wc2	X	0.3014	0.3107	0.3116	0.3028	Wc3	X	0.3028	0.3116	0.3126	0.3041
	Y	0.3368	0.3461	0.3392	0.3303		Y	0.3303	0.3392	0.3323	0.3240
Wc4	X	0.3041	0.3126	0.3134	0.3054	Wc5	X	0.3054	0.3134	0.3144	0.3068
	Y	0.3240	0.3323	0.3255	0.3177		Y	0.3177	0.3255	0.3186	0.3113
Wc12	X	0.3068	0.3144	0.3153	0.3081	Wc7	X	0.3107	0.3200	0.3204	0.3116
	Y	0.3113	0.3186	0.3118	0.3048		Y	0.3461	0.3553	0.3480	0.3392
Wc8	X	0.3116	0.3204	0.3210	0.3126	Wc9	X	0.3126	0.3210	0.3215	0.3134
	Y	0.3392	0.3480	0.3407	0.3323		Y	0.3323	0.3407	0.3334	0.3255
Wc10	X	0.3134	0.3215	0.3220	0.3144	Wc11	X	0.3144	0.3220	0.3225	0.3153
	Y	0.3255	0.3334	0.3260	0.3186		Y	0.3186	0.3260	0.3188	0.3118
Wc1	X	0.3001	0.3098	0.3107	0.3014	Wc6	X	0.3098	0.3195	0.3200	0.3107
	Y	0.3433	0.3529	0.3461	0.3368		Y	0.3529	0.3626	0.3553	0.3461
Wd2	X	0.3201	0.3291	0.3292	0.3207	Wd3	X	0.3207	0.3292	0.3293	0.3213
	Y	0.3534	0.3613	0.3527	0.3459		Y	0.3459	0.3527	0.3425	0.3362
Wd4	X	0.3213	0.3293	0.3295	0.3220	Wd10	X	0.3220	0.3295	0.3295	0.3227
	Y	0.3362	0.3425	0.3323	0.3267		Y	0.3267	0.3323	0.3226	0.3170
Wd6	X	0.3291	0.3382	0.3378	0.3292	Wd7	X	0.3292	0.3378	0.3373	0.3293
	Y	0.3613	0.3693	0.3596	0.3527		Y	0.3527	0.3596	0.3488	0.3425
Wd8	X	0.3293	0.3373	0.3368	0.3295	Wd9	X	0.3295	0.3368	0.3364	0.3295
	Y	0.3425	0.3488	0.3380	0.3323		Y	0.3323	0.3380	0.3284	0.3226
Wd1	X	0.3195	0.3291	0.3291	0.3201	Wd5	X	0.3291	0.3385	0.3382	0.3291
	Y	0.361	0.3692	0.3613	0.3534		Y	0.3692	0.3776	0.3693	0.3613
We2	X	0.3382	0.3473	0.3462	0.3378	We3	X	0.3378	0.3462	0.3452	0.3373
	Y	0.3693	0.3772	0.3664	0.3596		Y	0.3596	0.3664	0.3550	0.3488
We4	X	0.3373	0.3452	0.3442	0.3368	We10	X	0.3368	0.3442	0.3434	0.3364
	Y	0.3488	0.3550	0.3438	0.3380		Y	0.3380	0.3438	0.3339	0.3284
We6	X	0.3473	0.3562	0.3547	0.3462	We7	X	0.3462	0.3547	0.3528	0.3452
	Y	0.3772	0.3851	0.3736	0.3664		Y	0.3664	0.3736	0.3610	0.3550
We8	X	0.3452	0.3528	0.3510	0.3442	We9	X	0.3442	0.3510	0.3502	0.3434
	Y	0.3550	0.3610	0.3492	0.3438		Y	0.3438	0.3492	0.3395	0.3339
We1	X	0.3385	0.348	0.3473	0.3382	We5	X	0.348	0.3575	0.3562	0.3473
	Y	0.3776	0.3859	0.3772	0.3693		Y	0.3859	0.3942	0.3851	0.3772



Diagram



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

Fig.1 正向电流 Vs. 正向电压

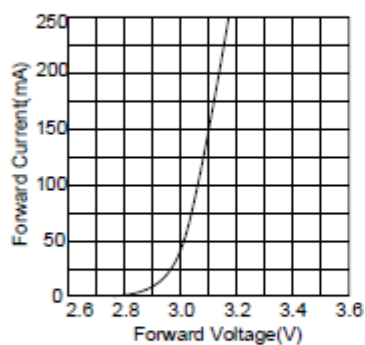


Fig.2 相对亮度 Vs. 正向电流

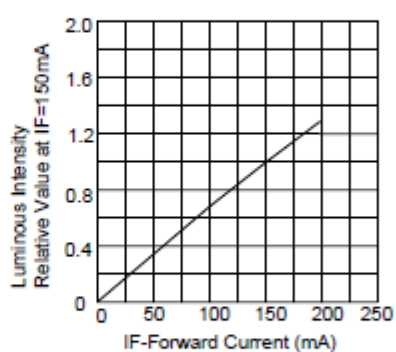


Fig.3 正向电流 Vs. 环境温度

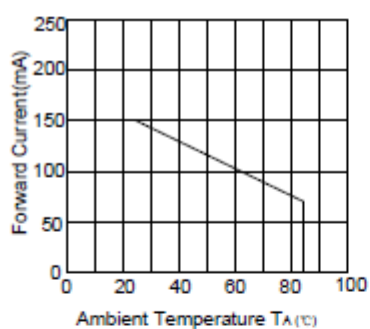
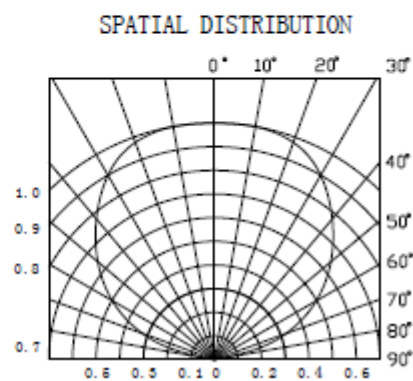
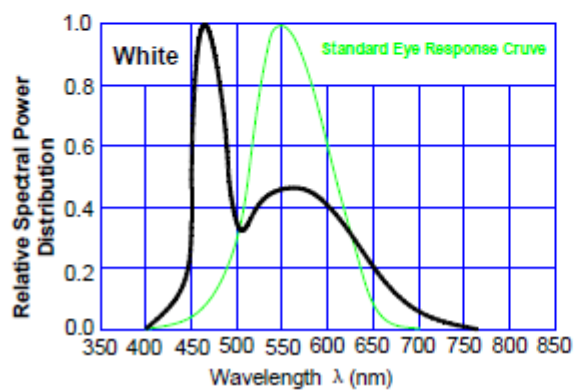
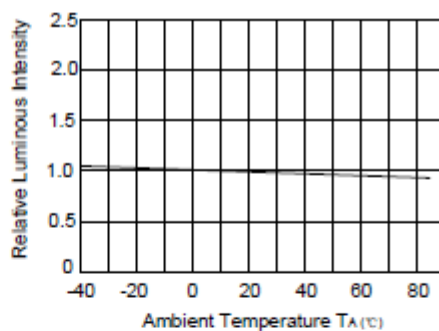


Fig.4 相对亮度 Vs. 环境温度



**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=150mA 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=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

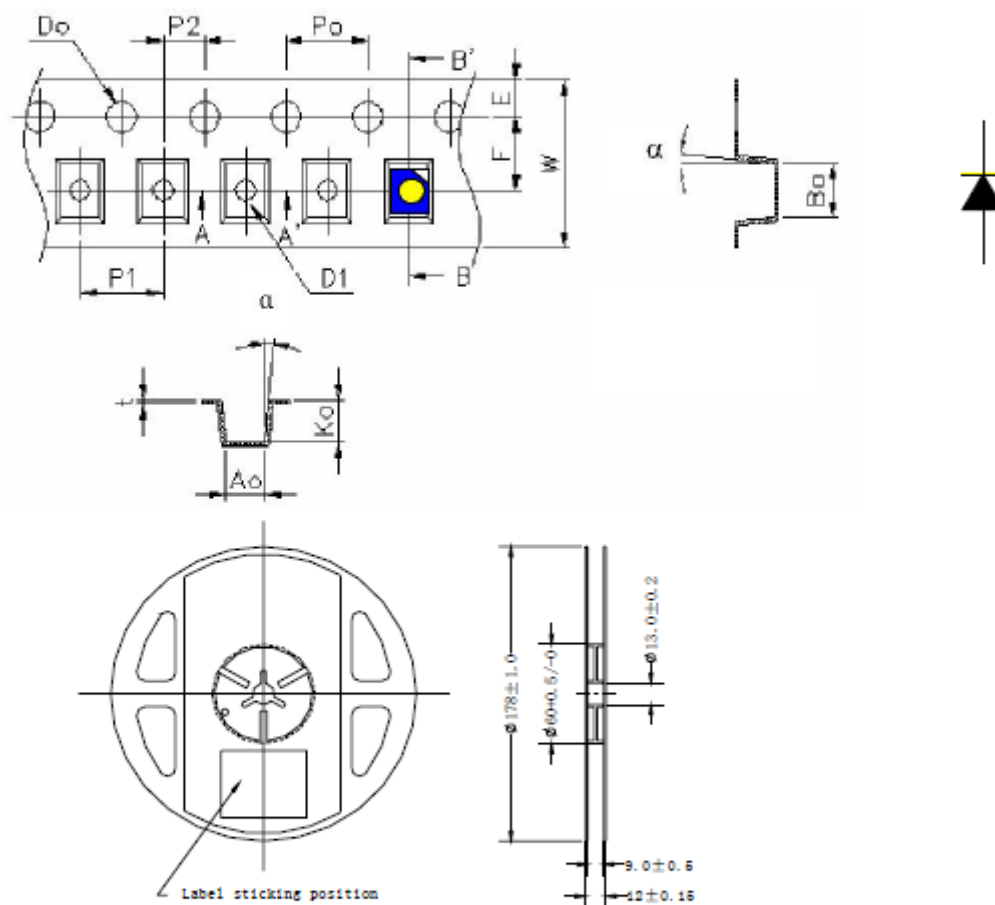
*L.S.L.: Lower Standard Level / 下限

**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°	