

愉進電子科技有限公司

EVERREDTRONICS LIMITED

上海市宝山区菊联路 89 号 201907

No 89 Julian Road, Baoshan, Shanghai 201907 China.

Tel:+86-21-6049 5160 Fax:+86-21-6531 1544

URL: www.everredtronics.com E-mail: sales@everredtronics.com**ITEM CODE: SMD3014PWC70****ATTENTION**

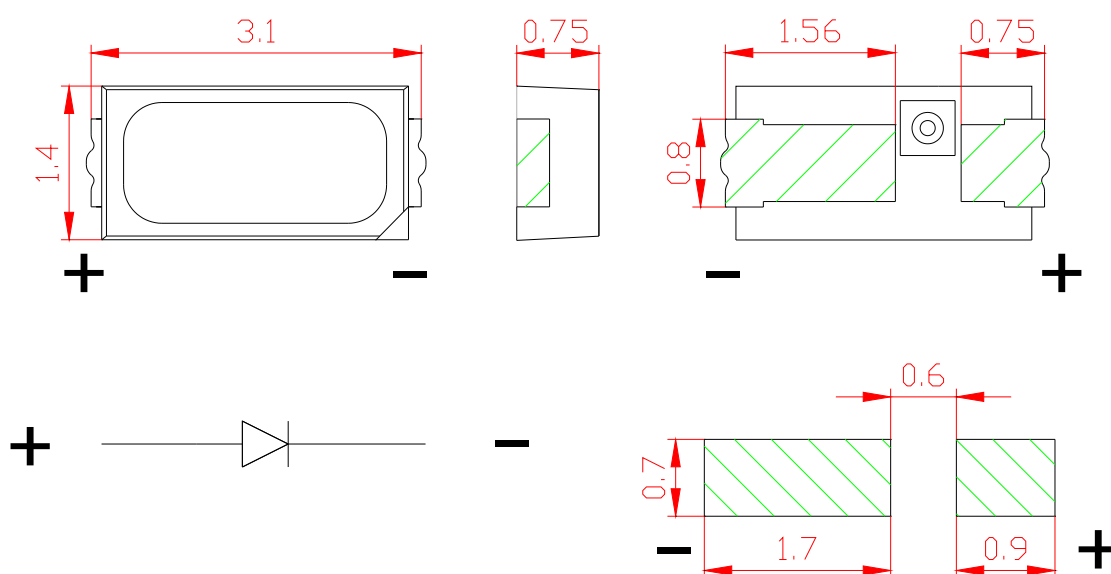
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

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: $3.1 \times 1.4 \times 0.75$ (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:

- Backlight for Mobile, Machine Vision, LCD Display/手机、电话、显示屏背光源
- Indoor Lighting /室内照明

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

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

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 参数		Unit 单位
			Min.	Max.	
Power Dissipation 损耗功率	Pd	——	——	120	mW
Reverse Voltage 反向电压	VR	IR = 30 μ A	5	——	V
Pulse Current 正向峰值电流	IFp	Duty=0.1, 1kHz	——	100	mA
Forward Current 正向工作电流	IFm	——	——	35	mA
Operating Temperature 工作温度范围	Topr	——	-40	+85	℃
Storage Temperature 储存温度范围	Tstr	——	-40	+100	℃

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 = 30mA	——	3.2	3.6	V
Reverse Current 反向电流	IR	VR = 5V	——	——	30	μ A
Color Correlated Temperature 色温	CCT	IF = 30mA	4730	——	13000	K
Luminous Intensity 发光强度	Iv	IF = 30mA	2550	3500	——	mcd
Luminous Flux 光通量 ^[1]	Flux	IF = 30mA	——	11.5	——	Lm
color rendering index 显色指数	Ra	IF = 30mA	70	——	——	——
Viewing Angle 发光指向角	2 θ 1/2	IF = 30mA	——	120	——	Deg.

Notes/备注: [1] The test standard is the luminous intensity, and the luminous flux is for your reference only./[1]本公司以发光强度为分档标准，光通量仅供参考。

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URL: www.everredtronics.com E-mail: sales@everredtronics.com**6、Prohuct Ranks/产品分档范围:**

发光强度分档标准		电压分档标准	
发光强度 Iv 值(mcd)	代表 符号	正向电压V _F 值(V)	代表 符号
IF=30mA		IF=30mA	
2550-3000	V2	2.80—2.90	N
3000-3500	W1	2.90—3.00	P
3500-4180	W2	3.00—3.10	Q
		3.10—3.20	R
		3.20—3.30	S
		3.30—3.40	T
		3.40—3.50	U
		3.50—3.60	V

注：分档误差： VF：±0.10V，Iv：±15%

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色坐标分档:

色坐标误差: ± 0.01

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	0.2823	0.2892	0.2863	Wb2	X	0.2823	0.2856	0.2920	0.2892
	Y	0.3138	0.3058	0.3140	0.3224		Y	0.3058	0.2979	0.3055	0.3140
Wb3	X	0.2856	0.2889	0.2949	0.2920	Wb4	X	0.2889	0.2922	0.2977	0.2949
	Y	0.2979	0.2899	0.2971	0.3055		Y	0.2899	0.2820	0.2886	0.2971
Wb5	X	0.2863	0.2892	0.2960	0.2935	Wb6	X	0.2892	0.2920	0.2984	0.2960
	Y	0.3224	0.3140	0.3221	0.3311		Y	0.3140	0.3055	0.3131	0.3221
Wb7	X	0.2920	0.2949	0.3008	0.2984	Wb8	X	0.2949	0.2977	0.3032	0.3008
	Y	0.3055	0.2971	0.3042	0.3131		Y	0.2971	0.2886	0.2952	0.3042
Wb9	X	0.2935	0.2960	0.3028	0.3008	Wb10	X	0.2960	0.2984	0.3048	0.3028
	Y	0.3311	0.3221	0.3303	0.3398		Y	0.3221	0.3131	0.3208	0.3303
Wb11	X	0.2984	0.3008	0.3068	0.3048	Wb12	X	0.3008	0.3032	0.3088	0.3068
	Y	0.3131	0.3042	0.3113	0.3208		Y	0.3042	0.2952	0.3018	0.3113

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Wc1	X	0.3014	0.3028	0.3116	0.3107	Wc2	X	0.3028	0.3041	0.3126	0.3116
	Y	0.3368	0.3303	0.3392	0.3461		Y	0.3303	0.3240	0.3323	0.3392
Wc3	X	0.3041	0.3054	0.3134	0.3126	Wc4	X	0.3054	0.3068	0.3144	0.3134
	Y	0.3240	0.3177	0.3255	0.3323		Y	0.3177	0.3113	0.3186	0.3255
Wc5	X	0.3068	0.3081	0.3153	0.3144	Wc6	X	0.3107	0.3116	0.3204	0.3200
	Y	0.3113	0.3048	0.3118	0.3186		Y	0.3461	0.3392	0.3480	0.3553
Wc7	X	0.3116	0.3126	0.3210	0.3204	Wc8	X	0.3126	0.3134	0.3215	0.3210
	Y	0.3392	0.3323	0.3407	0.3480		Y	0.3323	0.3255	0.3334	0.3407
Wc9	X	0.3134	0.3144	0.3220	0.3215	Wc10	X	0.3144	0.3153	0.3225	0.3220
	Y	0.3255	0.3186	0.3260	0.3334		Y	0.3186	0.3118	0.3188	0.3260
Wd1	X	0.3201	0.3207	0.3292	0.3291	Wd2	X	0.3207	0.3213	0.3293	0.3292
	Y	0.3534	0.3459	0.3527	0.3613		Y	0.3459	0.3362	0.3425	0.3527
Wd3	X	0.3213	0.3220	0.3295	0.3293	Wd4	X	0.3220	0.3227	0.3295	0.3295
	Y	0.3362	0.3267	0.3323	0.3425		Y	0.3267	0.3170	0.3226	0.3323
Wd5	X	0.3291	0.3292	0.3378	0.3382	Wd6	X	0.3292	0.3293	0.3373	0.3378
	Y	0.3613	0.3527	0.3596	0.3693		Y	0.3527	0.3425	0.3488	0.3596
Wd7	X	0.3293	0.3295	0.3368	0.3373	Wd8	X	0.3295	0.3295	0.3364	0.3368
	Y	0.3425	0.3323	0.3380	0.3488		Y	0.3323	0.3226	0.3284	0.3380
We1	X	0.3382	0.3378	0.3462	0.3473	We2	X	0.3378	0.3373	0.3452	0.3462
	Y	0.3693	0.3596	0.3664	0.3772		Y	0.3596	0.3488	0.3550	0.3664
We3	X	0.3373	0.3368	0.3442	0.3452	We4	X	0.3368	0.3364	0.3434	0.3442
	Y	0.3488	0.3380	0.3438	0.3550		Y	0.3380	0.3284	0.3339	0.3438
We5	X	0.3473	0.3462	0.3547	0.3562	We6	X	0.3462	0.3452	0.3531	0.3547
	Y	0.3772	0.3664	0.3732	0.3851		Y	0.3664	0.3550	0.3613	0.3732
We7	X	0.3452	0.3442	0.3515	0.3531	We8	X	0.3442	0.3434	0.3502	0.3515
	Y	0.3550	0.3438	0.3493	0.3613		Y	0.3438	0.3339	0.3395	0.3493

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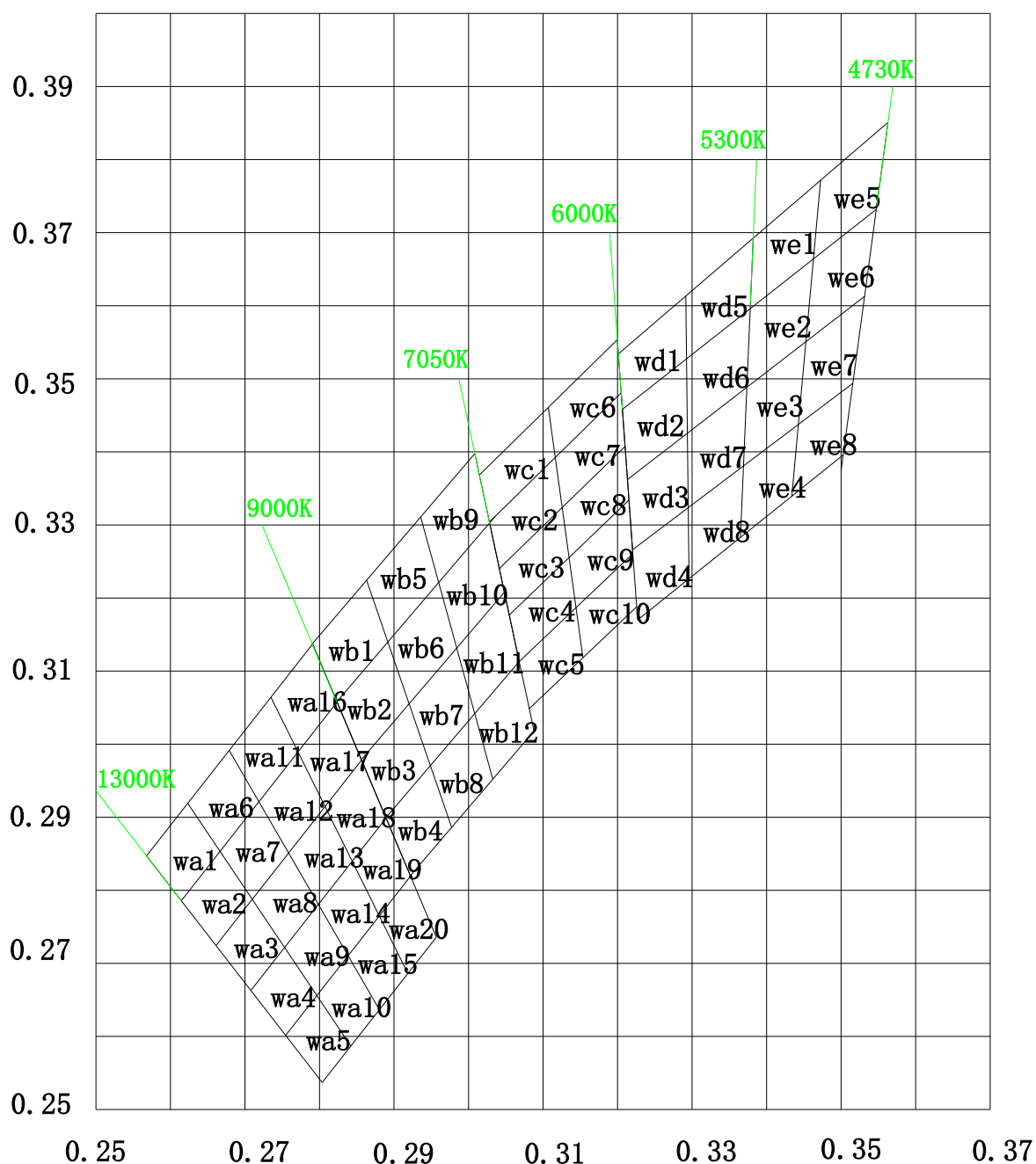
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Diagram



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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

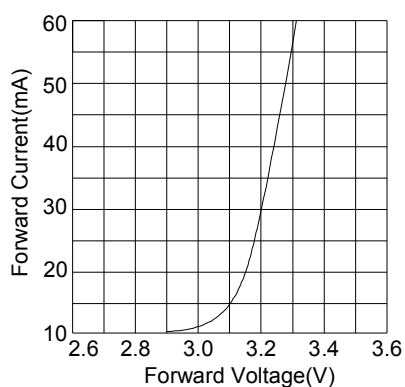


Fig.2 相对亮度 Vs. 正向电流

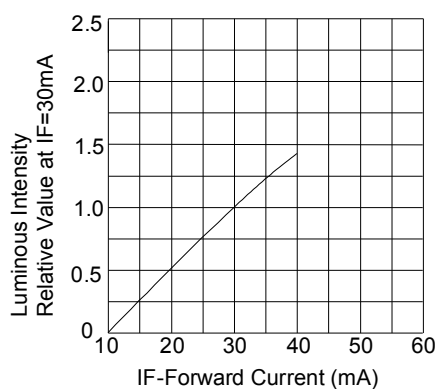


Fig.3 正向电流 Vs. 环境温度

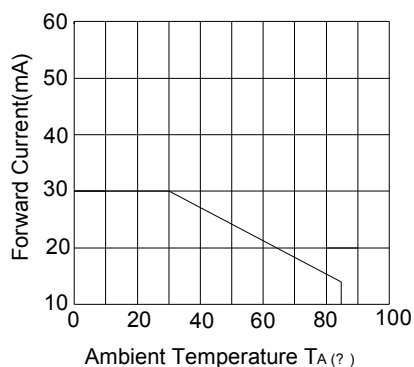
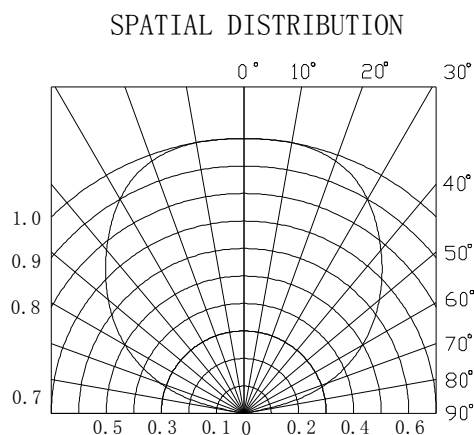
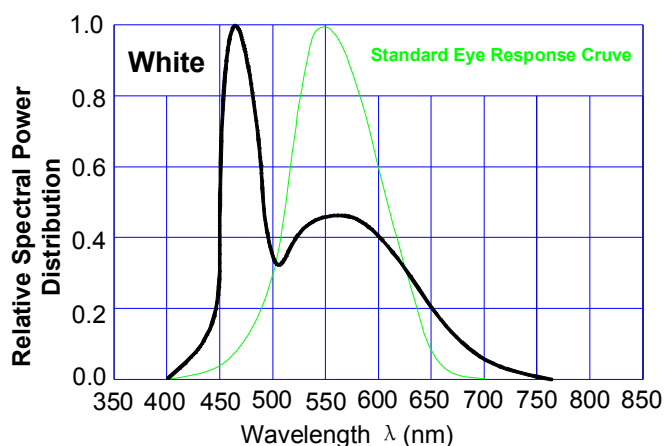
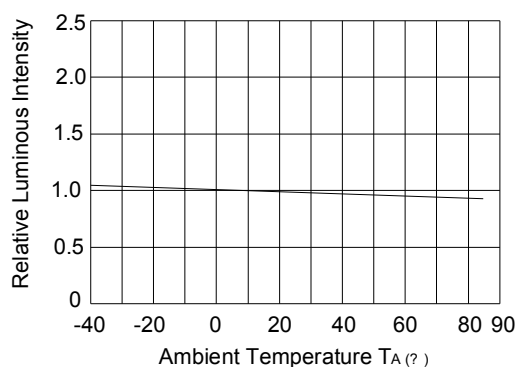


Fig.4 相对亮度 Vs. 环境温度



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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		20	1times Over 95%	ALL PASS
3	Temperature Cycle/ 高低温循环	-40℃—— 100℃ 30min ~ 30min The cut is not more than 1 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 ^[1]	IF=30mA Ta=25℃	GB/T 18904.3 Part A	20	1000hrs	Lm decay <3%

注：[1] 光衰测试数据以光通量为准。

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=30mA	L.S.L *0.7	/
Forward Voltage/正向电压	VF	IF=30mA	/	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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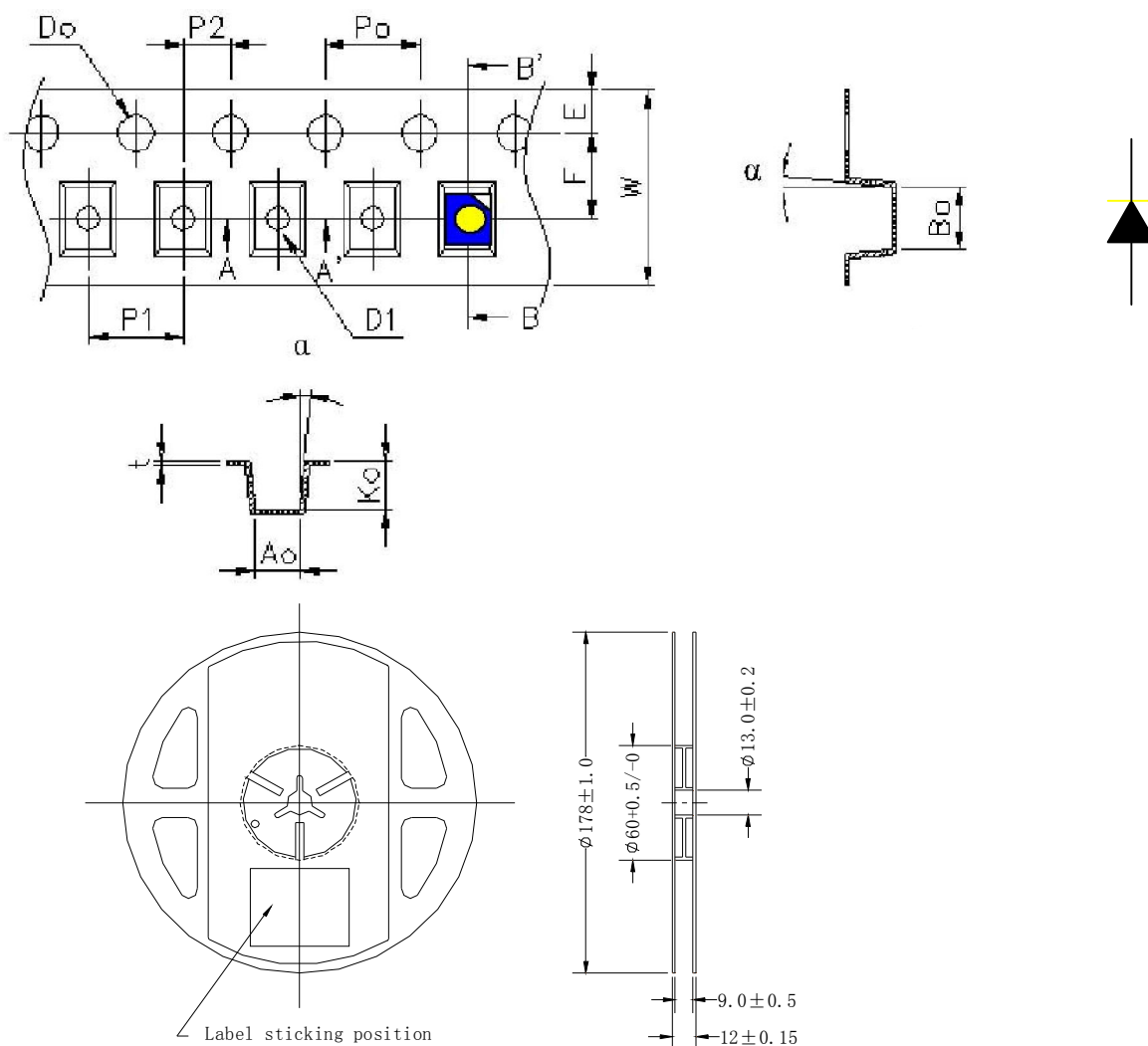
URL: www.everredtronics.com E-mail: sales@everredtronics.com

9、Specification of Packing / 包装规格

9.1 Taping and Orientation / 编带和方向

Quantity/数量: 2000 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	+0.30, -0.1	P2	2.00	± 0.05
E	1.75	± 0.10	t	0.2	± 0.03
F	3.50	± 0.05	A0	1.55	± 0.10
D0	1.50	+0.10, -0	B0	3.25	± 0.10
D1	1.00	+0.25, -0	K0	1.0	± 0.10
P0	4.00	± 0.1	α	Max 5°	

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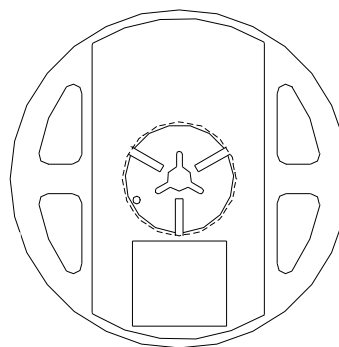
URL: www.everredtronics.com E-mail: sales@everredtronics.com

9.2 Specification of Packing/包装规格

Diameter/直径 : 178 mm

Width/宽度 : 12 mm

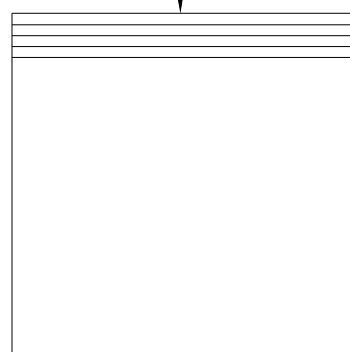
=>2000 pcs / Reel



(Anti-Static Shielding/抗静电保护袋)

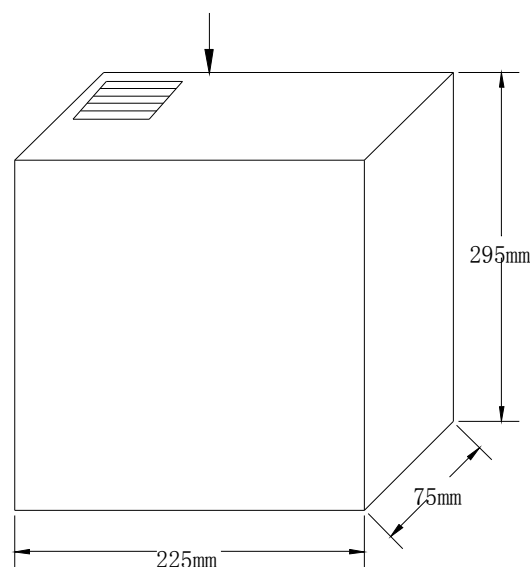
Thickness/厚度: T=0.1 mm

=> 1 Reel / Bag



5 Bags / Box

=> 10,000 pcs / Box



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9.3 Label Form Specification/标签格式规范

EVERREDTRONICS LTD	
P/N:	_____
Rank :	_____ / _____ / _____
Qty:	_____ pcs QC: _____
Date:	_____
Lot No:	_____
	

P/N: Customer's Production Number/产品编号

Ranks: Iv / Vf / WD

Iv: Iv Rank/亮度; Vf: VfRank/电压; WD: Color Group/色系

Qty: Packing Quantity/包装数量

QC: Quality Control chapter/质量控制章

Date: mm / dd / yy

mm: Month/月; dd: Date/日; yy: Year/年;

Lot No: Production batch Number/生产批号

10、Notes/注意

10.1 Moisture Proof Packaging/防潮包装

10.1.1 LEDs need to package in moisture proof bag. When moisture is absorbed into the SMT package it may vaporize and expand during soldering. There is a possibility that this can cause exfoliation of the contacts and damage to the optical characteristics of the LEDs. For this reason, the moisture proof bag is used to keep moisture to a minimum in the bag.

产品必须包封装在防潮包装袋中。当湿气进入防潮包装袋的时候，在焊接时，湿气会受热汽化膨胀，从而可能影响产品的光学特性，甚至造成封装胶体的开裂剥离。因此，防潮袋要求放置在保持低湿度的盒中。

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10.1.2 Moisture proof function is inactive. The moisture proof bag is made of an aluminum moisture proof bag. A package of a moisture absorbent material (silica gel) is inserted into the aluminum moisture proof bag. The silica gel turns the smashing from the transparent circular spherical pellet.

防潮的作用是缓慢的。防潮袋使用铝防潮袋，并在铝防潮袋中放入潮气吸收材料（硅胶干燥剂）。当硅胶干燥剂吸收潮气后，硅胶干燥剂从透明圆形球状颗粒变成粉碎物。

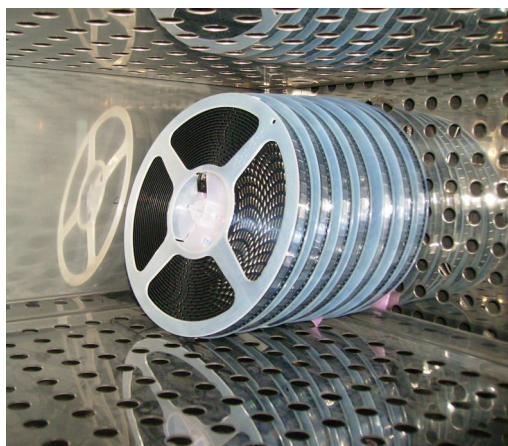
10.2 Storage Method/储存方式

10.2.1 Before opening the bag: The LEDs should be used within a year and kept at 30°C or less and 60%RH or less. The moisture proof bag with absorbent material is needed when storing the LEDs.

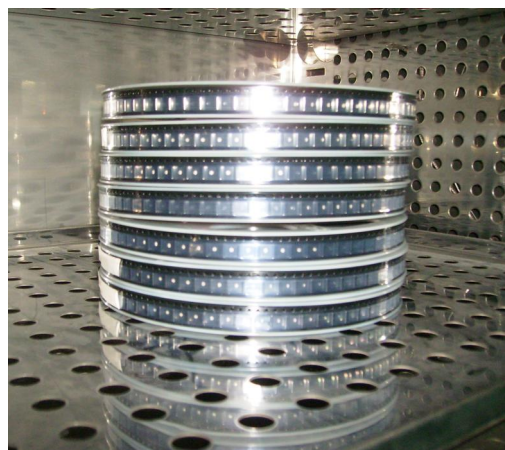
拆开包装袋之前：产品可以储存一年，但要求放置在温度低于30℃,湿度低于60%的环境中；当存放产品时，必须放置在带有干燥剂的防潮容器中。

10.2.2 After opening the bag: The LEDs should be soldered within 24 hours after opening the package. If unused LEDs remain, they should be stored in moisture proof bags with moisture absorbent material. It recommended that the user use the LEDs as soon as possible. If the LEDs have exceeded the storage time or the moisture absorbent material has faded away. Baking process should be performed by using more than 24hours baking at $60 \pm 5^{\circ}\text{C}$ before using LEDs.

拆开包装袋之后：产品应该在拆封后的24小时内焊接完毕；如果没用完，产品应该储存在带有干燥剂的防潮包装袋中；建议客户尽快的使用完产品；如果产品超出了使用期限或者干燥剂失效，那么产品在使用前必须在 $60 \pm 5^{\circ}\text{C}$ 中烘烤至少24小时。



✓ 正确



✗ 错误

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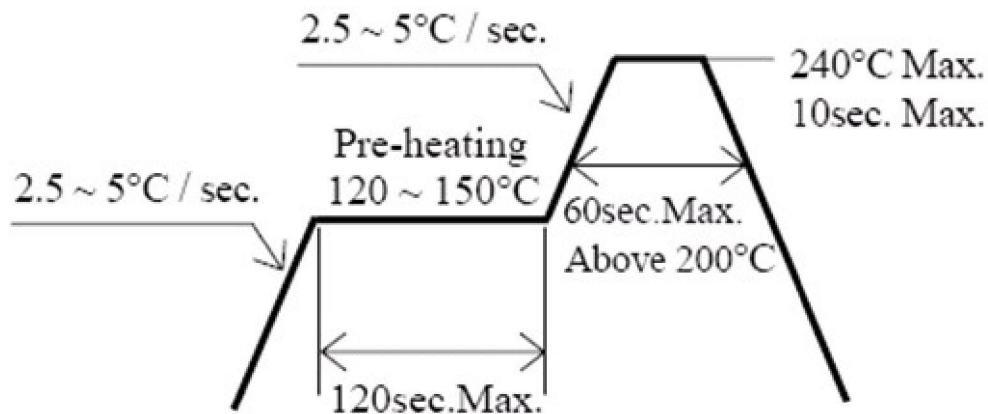
10.3 Heat Generation/产品热量的产生

Thermal design of the end applications are of paramount importance. Please consider the heat generation of the LED when making the system design. It is necessary to avoid intense heat generation and operate within the maximum ratings given in this specification.

应用产品的热学设计是至关重要的。在做系统设计时，请考虑LED的散热，避免热量的积累，必须严格的在允许的温度范围内使用。

10.4 Soldering/焊接

10.4.1 Lead Solder/回流焊接



10.4.2 Notes for reflow soldering/回流焊注意事项:

1. Baking process should be performed by using more than 24hours baking at $60 \pm 5^\circ\text{C}$ before using LEDs./ 在使用前LED必须在 $60 \pm 5^\circ\text{C}$ 中烘烤至少24小时。
2. Please choose the right nozzle to avoid the damage to products due to the pressure./ 选择合适的吸嘴大小和压力，以避免对产品产生不良隐患。
3. No more than twice for reflow soldering./回流焊不可超过两次。

10.4.3 Hand Soldering (Not Recommended) /手工焊接 (不推荐)

Soldering iron/烙铁焊接: 260 degrees C max/不超过 260°C ; 3 seconds max/不超过3s; once/允许1次。

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10.5 Cleaning/清洗

It is recommended that isopropyl alcohol be used as a solvent for cleaning the LEDs. It should be confirmed beforehand whether the solvents will dissolve the package the resin or not when using other solvents. Before cleaning, a pre-test should be done to confirm whether any damage to the LEDs will occur. Please do not clean the LEDs by the ultrasonic.

建议使用酒精作为溶剂清洗LED。若要使用其他溶剂，应该预先证实是否能溶化封装料。在清洗作业前，必须预先实验确认对LEDs无任何的伤害。请不要使用超声波清洗LED。

10.6 Static Electricity/静电

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs. All devices, equipment and machinery must be properly grounded. It is recommended that precautions be taken against surge voltage to the equipment that mounts the LEDs.

在接触LED时，建议使用防静电手腕带或防静电手套。所有的器件、设备和机器必须有可靠的接地。对所有LED接触的设备，建议采取预防措施消除冲击电压。

10.7 Others/其他

1. The LED light output is strong enough to injure human eyes. Precautions must be taken to prevent looking directly at the LEDs with unaided eyes for more than a few seconds.

LED的光辐射足够强时，会对人眼造成伤害。若眼睛要直接看LED，并且要一定的时间，则必须采取相应防护措施。

2. LED operating environment and sulfur element composition cannot be over 100PPM in the LED mating usage material.

LED工作环境及与LED适配的材料中硫元素及化合物成份不可超过100PPM。

3. Not suitable to operate in acidic environment, PH<7

LED不可用在PH<7的酸性环境。

4. When we need to use external glue for LED application products, please make sure that the external glue matches the LED packaging glue. Additionally, as most of LED packaging glue is silica gel, and it has strong Oxygen permeability as well as strong moisture permeability; in order to prevent external material from getting into the inside of LED, which may cause the

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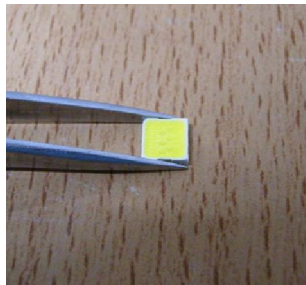
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malfunction of LED, the single content of Bromine element is required to be less than 900PPM, the single content of Chlorine element is required to be less than 900PPM, the total content of Bromine element and Chlorine element in the external glue of the application products is required to be less than 1500PPM.

在使用外封胶涂抹LED产品时, 应确保外封胶与LED封装胶水相匹配, 因为大多数LED的封装胶水为硅胶, 它有较强的氧化性和较强的吸湿性, 必须防止外封材质进入LED内部以造成LED的损伤, 单一的溴元素含量要求小于900PPM, 单一氯元素含量要求小于900PPM, 在涂抹LED产品时要求外封胶溴元素与氯元素总含量必须小于1500PPM。

5. To ensure the quality of our LEDs, So please do not put pressure on the LEDs.

为确保LED的可靠性, 在操作过程中不可施加压力在LED器件胶体表面。



✓ 正确



✗ 错误