



旭宇光电（深圳）股份有限公司

XUYU OPTOELECTRONICS (SHENZHEN) CO., LTD.

SPECIFICATION

产品规格书

NO. (编号): XY-SE-401-PE-0036

Customer(客户): _____

Part No.(型号): XY-2835W1JP

Description(描述): 2835 Plue White LED

Model(说明): 2835 正白光 LED

Date(日期): _____

CUSTOMER APPROVED (客户审核)	APPROVED (核准)	ISSUED (制定)
	卢淑芬	赵文

[XUYU OPTOELECTRONICS \(SHENZHEN\) CO., LTD.](http://www.xy-led.com)

Address: A1 Building, Sunshine Industrial Park, Hezhou, Xixiang, Bao'an District
Shenzhen City, Guangdong Province, China.

地址: 广东省深圳市宝安区鹤洲阳光工业区A1栋

Tel: 0755- 81453318-3328/3338

Fax:0755-81453199

<http://www.xy-led.com>

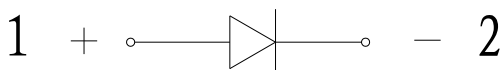
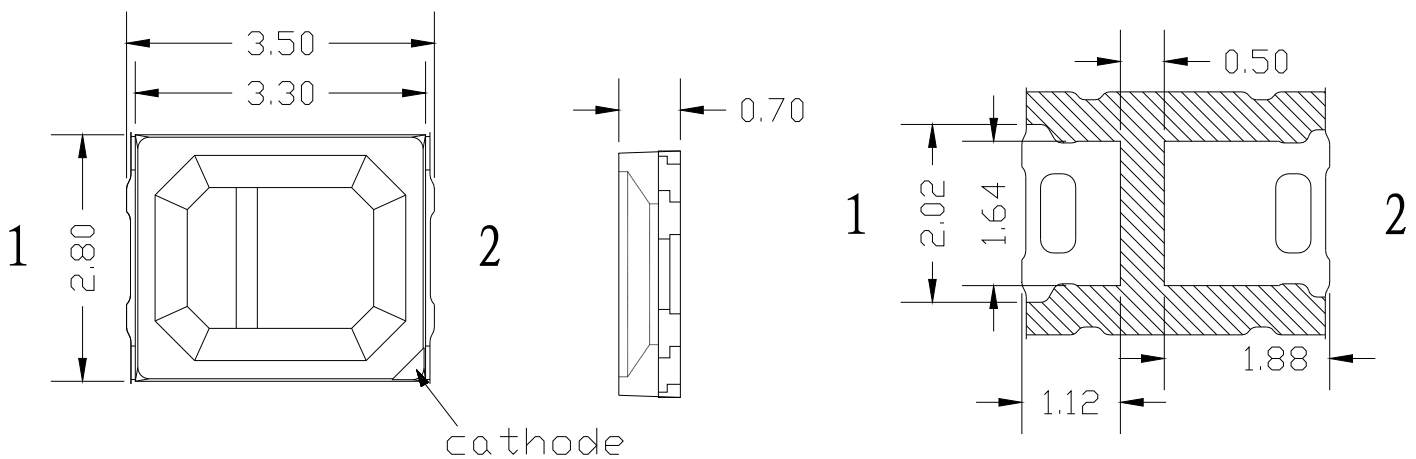
◆ Features 特性:

- * Small package with high efficiency 体积小, 光效高
- * Low voltage operation, Instant light 电压低, 发光响应快
- * Long operation life 工作寿命长
- * Lead free product 不含铅, 环保
- * RoHS compliant 通过 RoHS 认证

◆ Applications 产品应用:

- * Mobile phone flash 手机闪光灯
- * Automotive interior lighting 汽车室内照明
- * Automotive forward lighting 汽车灯
- * Architectural lighting 建筑照明
- * LCD TV / Monitor backlight 液晶电视/显示器背光
- * Traffic signals 交通信号灯
- * Task lighting 任务照明
- * Decorative/ Pathway lighting 装饰/道路照明
- * Remote / Solar powered lighting 远程/太阳能照明
- * Household appliances 家用电器

◆ Package Dimensions 产品外观尺寸



Notes:

1. All dimensions are in mm 所有尺寸单位为毫米。
2. Tolerance is ± 0.2 mm unless otherwise noted. 非特殊标注, 公差为 ± 0.2 毫米。



◆ **Absolute Maximum Ratings (T_A=25°C) 绝对最大额定值**

Parameter (参数)	Symbol (符号)	Rating (等级)	Unit (单位)
Power Dissipation 额定功率	P _D	0.2	W
Forward Current 正向电流	I _F	60	mA
Peak Forward Current 脉冲电流	I _{FP}	100	mA
Operation Temperature Range 工作温度范围	T _{opr}	-35 to +60	°C
Storage Temperature Range 储存温度范围	T _{stg}	-40 to +70	°C
ESD Sensitivity (HBM) 抗静电能力(人体模式)	--	2000	V
Soldering Temperature 手动焊接温度	300±20°C/3~5sec		

NOTE: * Pulse width(脉冲宽度) ≤0.1msec Duty Ratio(周期) ≤1/10

◆ **Electrical-Optical Characteristics (T_A=25°C) 电性与光学特性**

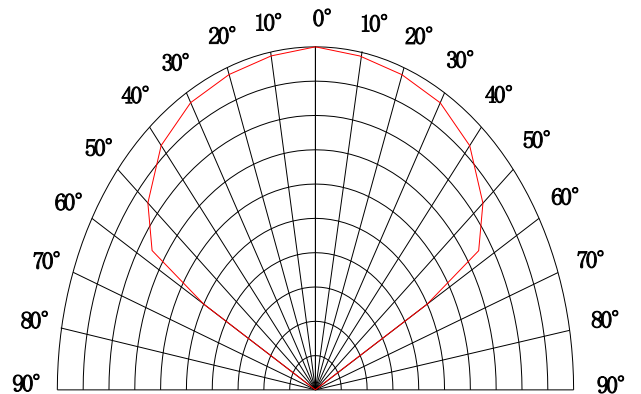
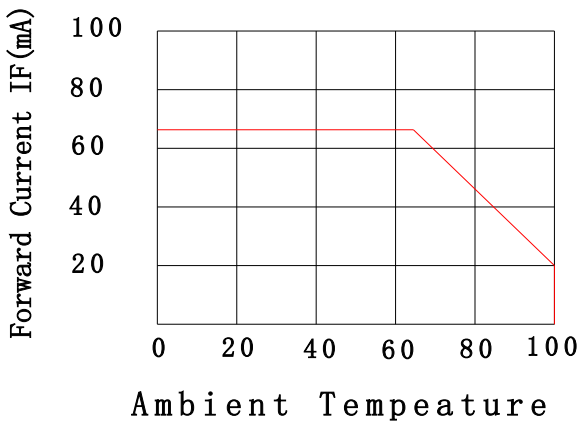
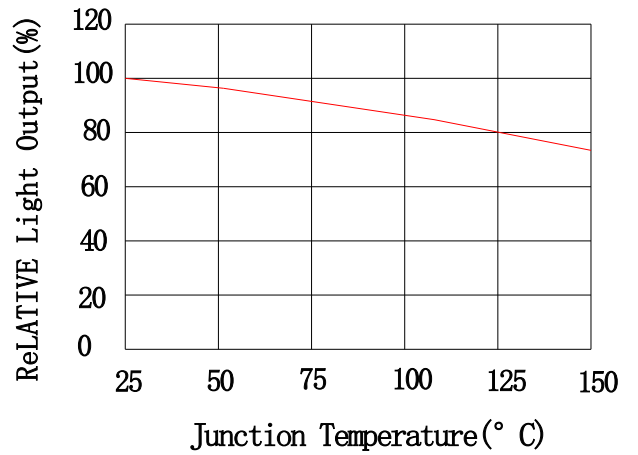
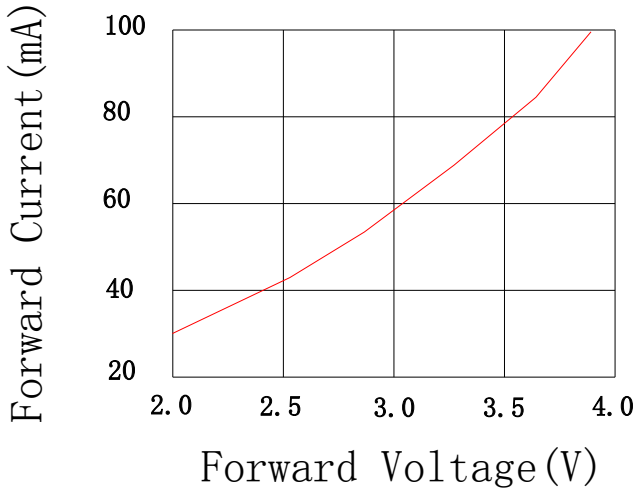
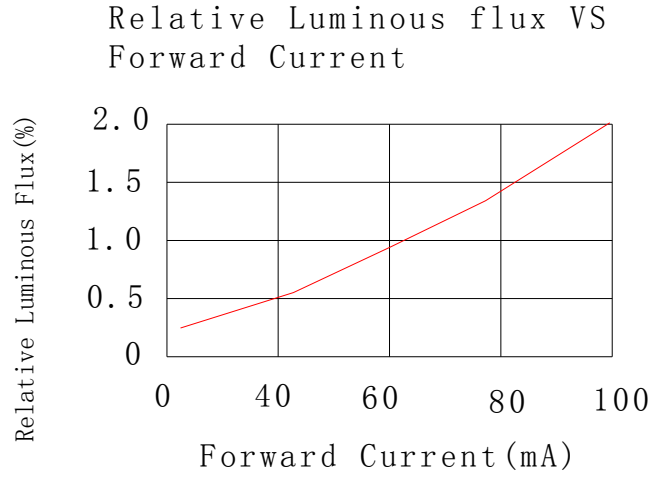
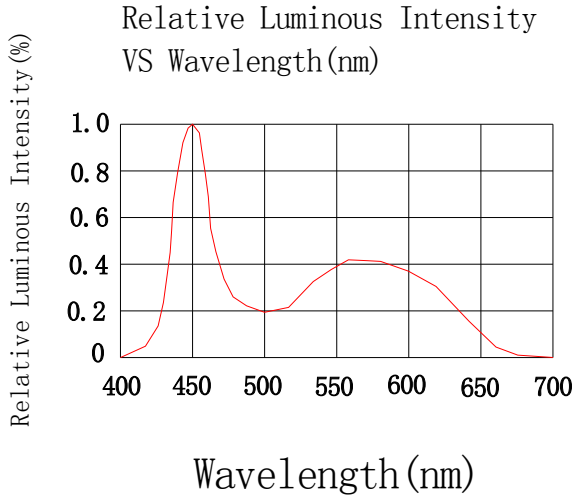
Parameter 参数	Test Condition 测试条件	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位
Forward Voltage 正向电压	I _F =60mA	V_F	3.0	---	3.2	V
Reverse Current 反向电流	V _R =-5V	I_R	---	---	5	μA
View Angle 发光角度	I _F =60mA	2θ1/2	---	120	---	deg.
Luminous flux 光通量	I _F =60mA	Φ_v	26	---	28	lm
Color Coordinates 色度坐标	I _F =60mA	X	---	0.32	---	
		Y	---	0.33	---	
Color Temperature 色温	I _F =60mA	CCT	6000	---	6500	K
Color Rendering index 显指	I _F =60mA	R_a	80	---	---	---

Note: the test tolerance 测试公差

V_F : ±0.05V **CCT** : ±5% XY : ±0.005 **Φ_v** : ±10%

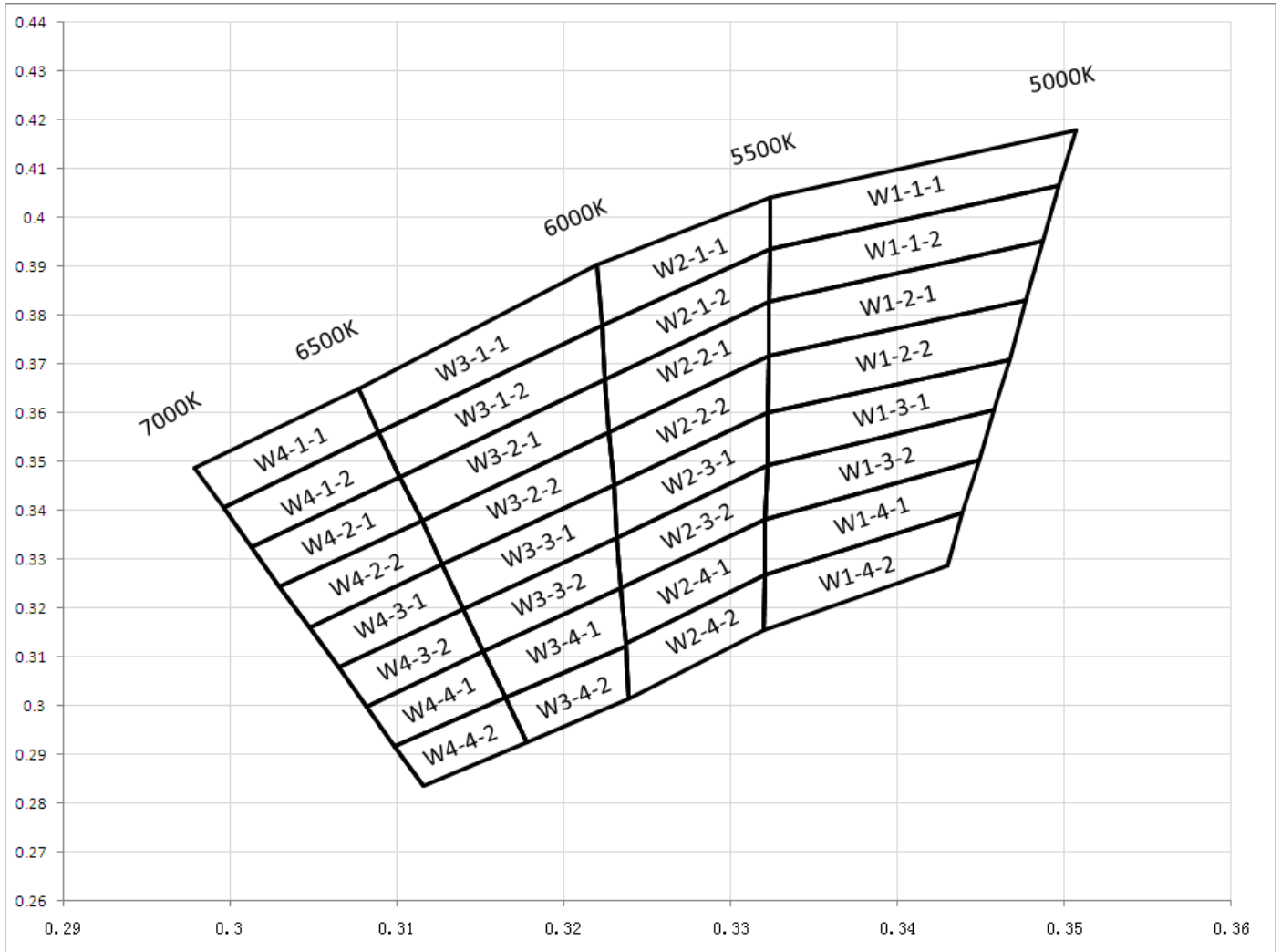
◆ Typical Electrical/Optical Characteristic Curves (If=60mA; TA=25°C)

典型光电特性曲线





◆CIE Chromaticity Diagram:(If=60mA;TA=25°C)
CIE 色度图





Color RANK : (If=60mA; T_A=25℃) 颜色分光等级

CODE	CCT	X	Y
W1-1-1	5000 - 5500K	0.3324	0.3935
		0.3497	0.4065
		0.3507	0.4178
		0.3324	0.4041
W1-1-2		0.3323	0.3829
		0.3487	0.3951
		0.3497	0.4065
		0.3324	0.3935
W1-2-1		0.3323	0.3716
		0.3477	0.383
		0.3487	0.3951
		0.3323	0.3829
W1-2-2	0.3322	0.3602	
	0.3467	0.371	
	0.3477	0.383	
	0.3323	0.3716	

CODE	CCT	X	Y
W1-3-1	5000 - 5500K	0.3322	0.3492
		0.3458	0.3607
		0.3467	0.371
		0.3322	0.3602
W1-3-2		0.3321	0.3382
		0.3449	0.3504
		0.3458	0.3607
		0.3322	0.3492
W1-4-1		0.3321	0.3268
		0.3439	0.3396
		0.3449	0.3504
		0.3321	0.3382
W1-4-2	0.332	0.3154	
	0.343	0.3288	
	0.3439	0.3396	
	0.3321	0.3268	

CODE	CCT	X	Y
W2-1-1	5500 - 6000K	0.3223	0.3778
		0.3324	0.3935
		0.3324	0.4041
		0.322	0.3904
W2-1-2		0.3225	0.3669
		0.3323	0.3829
		0.3324	0.3935
		0.3223	0.3778
W2-2-1		0.3227	0.3559
		0.3323	0.3716
		0.3323	0.3829
		0.3225	0.3669
W2-2-2	0.323	0.3453	
	0.3322	0.3602	
	0.3323	0.3716	
	0.3227	0.3559	

CODE	CCT	X	Y
W2-3-1	5500 - 6000K	0.3232	0.3344
		0.3322	0.3492
		0.3322	0.3602
		0.323	0.3453
W2-3-2		0.3234	0.3242
		0.3321	0.3382
		0.3322	0.3492
		0.3232	0.3344
W2-4-1		0.3237	0.3129
		0.3321	0.3268
		0.3321	0.3382
		0.3234	0.3242
W2-4-2	0.3239	0.3015	
	0.332	0.3154	
	0.3321	0.3268	
	0.3237	0.3129	



CODE	CCT	X	Y
W3-1-1	6000 - 6500K	0.3089	0.3559
		0.3223	0.3778
		0.322	0.3904
		0.3077	0.3649
W3-1-2		0.3102	0.3469
		0.3225	0.3669
		0.3223	0.3778
		0.3089	0.3559
W3-2-1		0.3115	0.3378
		0.3227	0.3559
		0.3225	0.3669
		0.3102	0.3469
W3-2-2	0.3127	0.3289	
	0.323	0.3453	
	0.3227	0.3559	
	0.3115	0.3378	

CODE	CCT	X	Y
W3-3-1	6000 - 6500K	0.314	0.3198
		0.3232	0.3344
		0.323	0.3453
		0.3127	0.3289
W3-3-2		0.3152	0.3111
		0.3234	0.3242
		0.3232	0.3344
		0.314	0.3198
W3-4-1		0.3165	0.3017
		0.3237	0.3122
		0.3234	0.3242
		0.3152	0.3111
W3-4-2	0.3178	0.2926	
	0.3239	0.3015	
	0.3237	0.3122	
	0.3165	0.3017	

CODE	CCT	X	Y
W4-1-1	6500 - 7000K	0.2996	0.3406
		0.3089	0.3559
		0.3077	0.3649
		0.2979	0.3487
W4-1-2		0.3013	0.3324
		0.3102	0.3469
		0.3089	0.3559
		0.2996	0.3406
W4-2-1		0.303	0.3243
		0.3115	0.3378
		0.3102	0.3469
		0.3013	0.3324
W4-2-2	0.3048	0.316	
	0.3127	0.3289	
	0.3115	0.3378	
	0.303	0.3243	

CODE	CCT	X	Y
W4-3-1	6500 - 7000K	0.3065	0.308
		0.314	0.3198
		0.3127	0.3289
		0.3048	0.3161
W4-3-2		0.3082	0.2998
		0.3152	0.3111
		0.314	0.3198
		0.3065	0.308
W4-4-1		0.3099	0.2917
		0.3165	0.3017
		0.3152	0.3111
		0.3082	0.2998
W4-4-2	0.3116	0.2835	
	0.3178	0.2926	
	0.3165	0.3017	
	0.3099	0.2917	



Reliability 信赖性测试项目及测试条件

1. Test Items And Results 测试项目及结果

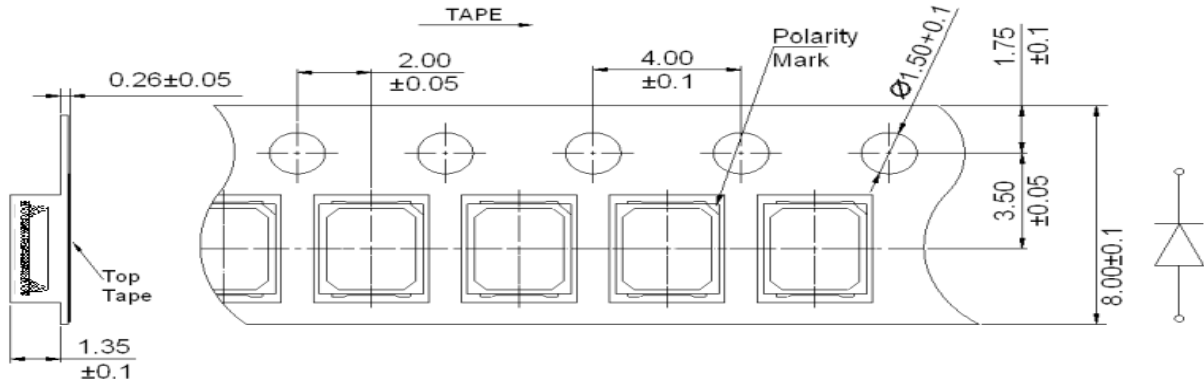
Item 项目	Test conditions 测试条件	Note 测试频率	Number of Damaged 损坏数量
Reflow 回流焊	Temp:260°C max T=10 sec	2 time	0/30
Thermal Shock 冷热冲击	-40~100°C 30min, 10s, 30min	100cycles	0/30
High Temperature High Humidity Storage 高温高湿储存	Ta=60°C, RH=90%	300hrs	0/30
Steady State Operating life 常温通电	Ta=25°C, IF=60mA	1000hrs	0/30
Steady State Operating life of High Humidity Heat 高温高湿通电	Ta=60°C RH=90%, IF=60mA	1000hrs	0/30
High Temperature Storage 高温储存	Ta=100°C	1000HRS	0/30
Low Temperature Storage 低温储存	Ta=-40°C	1000HRS	0/30

2. Criteria for Judging The Damage 失效判定标准

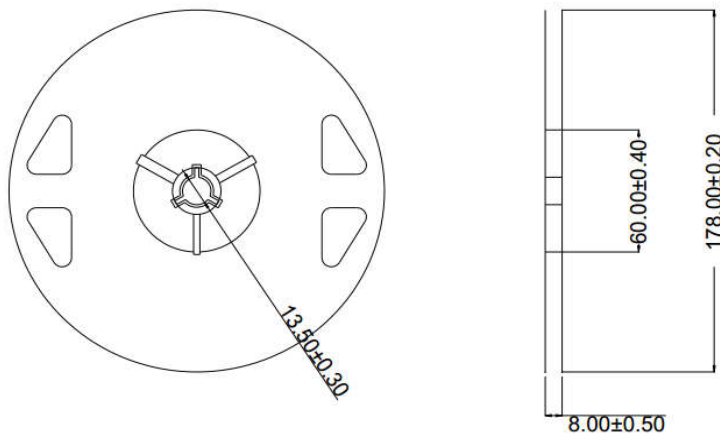
Item 项目	Symbol 符号	Test Conditions 测试条件	Criteria for Judgment 判定标准	
			Min.最小	Max.最大
Forward Voltage	V _F	I _F =60 mA	---	Initial Data ×1.1
Luminous Intensity	I _V	I _F =60 mA	Initial Data × 0.9	---
Reverse Current	I _R	V _R = 5V	---	Initial Data x2.0

◆ Packaging Specifications 包装规格

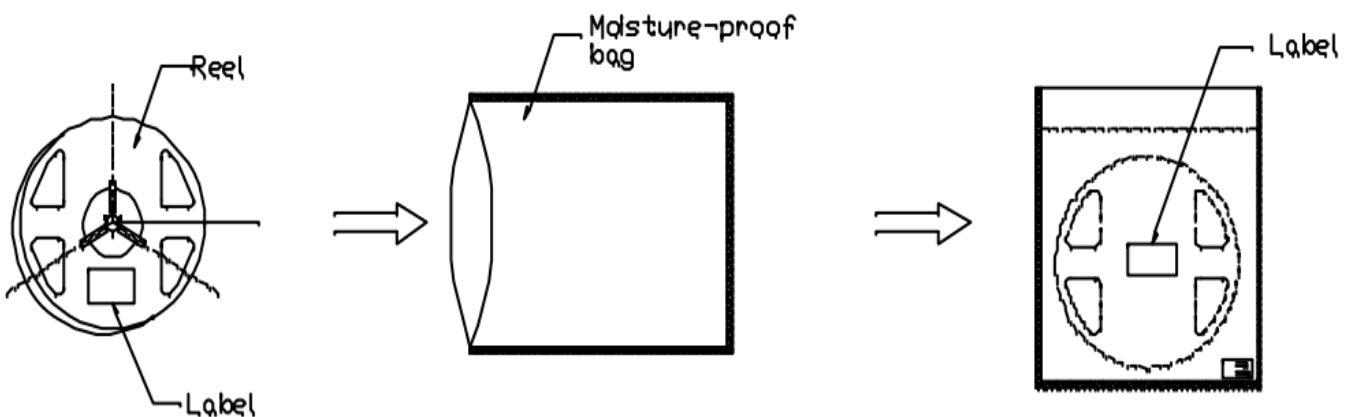
Dimensions of Tape 载带规格



Dimensions of Reel 卷盘规格



Packaging specifications 包装规格



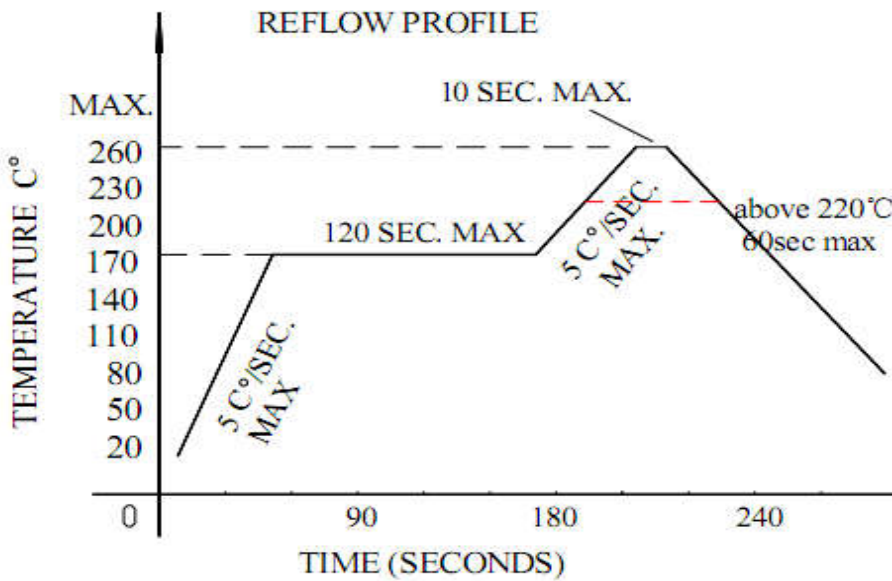


Label(标签):

- Φ(LM): Luminous flux rank 光通量等级
- XY: Color Coordinates 色度坐标
- VF: Forward Voltage 电压等级
- RA: Color Rendering index 显色指数

旭宇光电(深圳)股份有限公司 XUYU OPTOELECTRONICS(SHENZHEN)CO.,LTD.			
Part NO. : XY-XXXXXXXX	Lot NO. : XX-XXX	Q'ty: XXXX pcs	
Code	Min	Typ	Max
XY: XX	TC: XXXX		XXXX
PO: XX	Φ(LM): XX		XX
IF: XX	VF(V): XX		XX
SDCM: X	RA: XX		
BIN NO. : X-X-X	Rθ: X	DATE: XXXX/XX/XX	
备注: XXXXXXXX XX (XX)			
专注LED封装 Professional LED Package		标准LED光源制造商 Manufacturer Of Standard LED Sources	

◆ SMT Reflow Soldering Instructions SMT 回流焊说明



1.Reflow soldering should not be done more than two times

回流焊不可以做两次以上

2.When soldering, do not put stress on the LEDs during heating

当焊接时, 材料受热, 不可以用力按压胶体表面

◆ Soldering iron 烙铁焊接

1. When hand soldering, keep the temperature of the iron under 300°C, and at that temperature keep the time under 3 sec.

当手工焊接时，烙铁的温度必须小于 300℃，时间不可超过 3 秒

2. The hand soldering should be done only one time,

手工焊接只可焊接一次

◆ Rework 维修

1. Customer must finish rework within 3 sec under 300℃

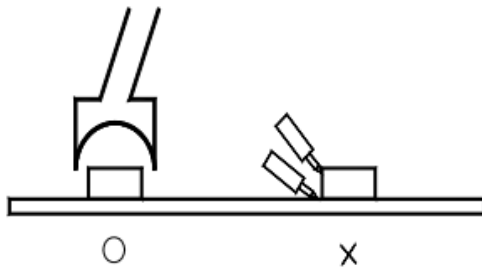
客户在维修时，烙铁温度控制在 300 度以下，且在 3 秒内完成。

2. The head of iron can not touch the resin

焊头不可以触碰到胶体表面

3. Twin-head type is preferred.

使用双头烙铁操作，如图所示。



◆ CARTIONS 注意事项

The encapsulated material of the LEDs is silicone .Therefore the LEDs have a soft surface on the top of package. The pressure to the top surface will be influence to the reliability of the LEDs. Precautions should be taken to avoid the strong pressure on the encapsulated part. So when using the picking the picking up nozzle,the pressure on the silicone resin should be proper.

LED 封装为硅胶，故 LED 胶体表面较软，用力按压胶体表面会影响 LED 可靠性，因此应有预防措施避免在封装的零件上的强大压力，当使用吸嘴时，胶体表面的压力应是恰当的。