

样品承认书

Sample Approval Sheet

产品类别(Product type):SMD		
产品名称(Product name): 5050-R/G/B 全彩+白光		
产品编号(Part No.): WEJT50ARGBW-BFA6EEN01		
样品编号(Sample No.):		
承认书编号(Acknowledgement Numbers):		
签核 (Signatures)		
核准(Approved)	审核(Checked)	制定(Drawn)
王娟	王娟	王艳

客户 (Customer)		
公司名称(Corporation):		
物料编码(Material No.):		
物料名称(Part No.):		
客户确认 (Customer Signatures)		

地址:深圳市光明新区公明街道玉律社区第六工业区 21 栋

Factory Add: 21st Bld., 6th Industrial Park, Yulv Community, Genyu Rd., Guangming New District, Shenzhen, China

电话(Tel):0755-29785600 29785800 传真(Fax):0755-29785100 联系人(Contact Person):

网址(Web Site):www.wej.cn

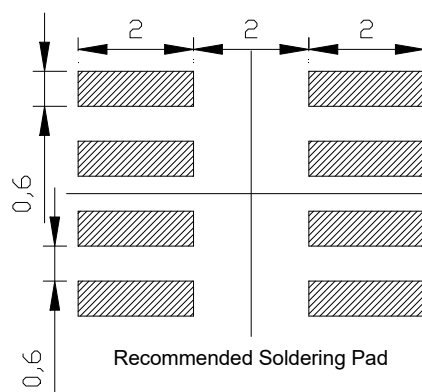
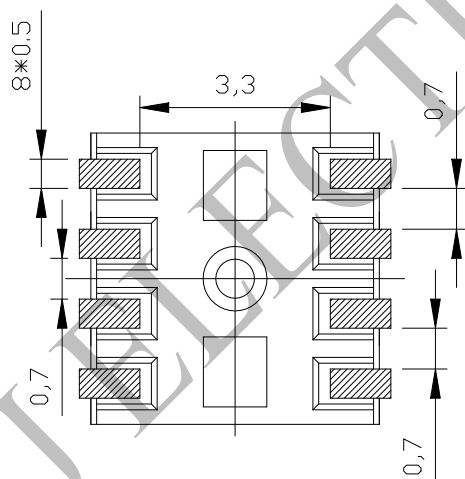
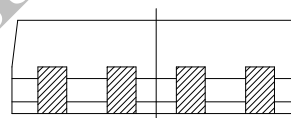
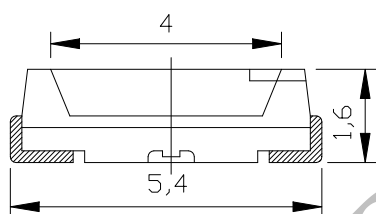
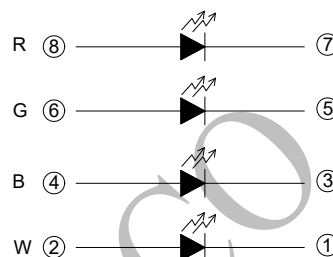
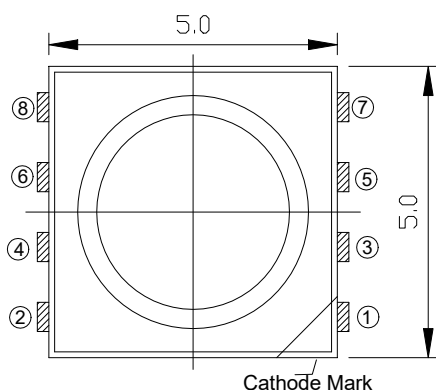
Feature

- *Low power consumption
- *Long life-solid state reliability
- *Available on tape and reel
- *RoHS compliant

特征

- *低能耗
- *寿命长
- *易于装贴
- *符合 RoHS 要求

Package outline dimensions (产品外型尺寸)



Note:

1. All dimensions are in millimeters(mm);
2. X.X is ± 0.1 mm, X.XX is ± 0.05 mm unless otherwise noted;
3. The device has a single mounting surface, the device must be mounted according to the specifications.
4. The specifications of the product may be modified for improvement without notice.

Electrical characteristics data sheet

Selection Guide (选用指示)

Part No. (产品型号)	Emitted Color (发光颜色)	Resin color (胶体颜色)	Viewing Angle (发光角度) 2θ _{1/2}
WEJT50ARGBW-BFA6EEN01	R&G&B&W	Clear& Yellow	120

Absolute Maximum Ratings at Ta=25℃ (极限参数)

Parameter (项目)	Symbol (符号)	Value (数值)				Unit (单位)
		R	G	B	W	
Power dissipation (功率消耗)	Pd	72	102	102	102	mW
DC Forward Current (正向电流)	If	20	20	20	20	mA
Peak Forward Current ⁽¹⁾ (峰值电流)	Ifp	100	100	100	100	mA
Reverse Voltage (反向电压)	Vr	5	5	5	5	V
Electro-Static-Discharge ⁽²⁾ (HBM)	ESD	2000	2000	2000	2000	V
Operating Temperature (工作环境温度)	Topr	-25to+85				℃
Storage Temperature (储存温度)	Tstg	-40to+100				℃
Lead Solder Temperature (焊接温度)	Tsol	260 for 5sec				℃

Notes:

- 1/10 duty cycle, 0.1ms pulse width;
- The products are sensitive to static electricity and must be carefully taken when handling products.

Electrical/Optical Characteristics Ta=25℃ (电子光学特性)

Parameter (参数)	Symbol (符号)	Light Color (发光颜色)	Condition (条件)	Value (数值)			Unit
				Min.	Typ.	Max.	
Forward voltage (正向电压)	Vf	R	If=20mA	1.8	2.0	2.4	V
		G	If=20mA	2.8	2.2	3.4	V
		B	If=20mA	2.8	3.2	3.4	V
		W	If=20mA	2.8	3.2	3.4	
Luminous Intensity (发光强度)	IV	R	If=20mA	460	700	780	mcd
		G	If=20mA	1300	1700	2300	mcd
		B	If=20mA	350	400	600	mcd
		W	If=20mA	6	7	9	lm
Dominant wavelength (主波长)	λd	R	If=20mA	620	625	630	nm
		G	If=20mA	525	530	535	nm
		B	If=20mA	460	465	470	nm
	TC	W	If=20mA	5500	6000	6500	K
Reverse current (反向电流)	Ir		Vr=5V	---	---	1	μA

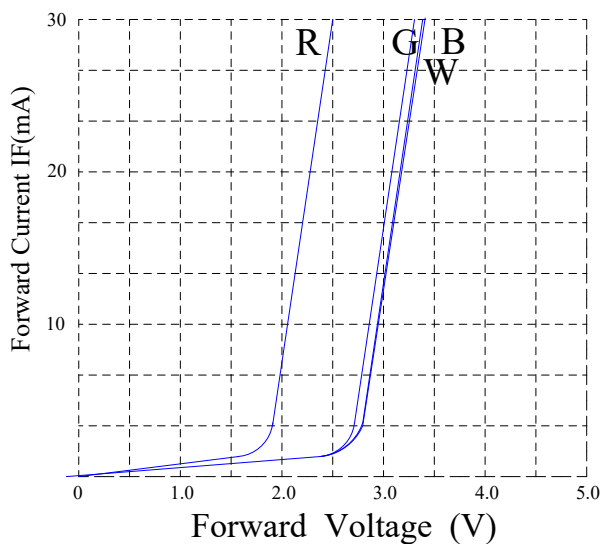
Notes:

1. Forward voltage: ±0.1V ;
2. wavelength: ±5%;
3. Luminous Intensity: ±10%.

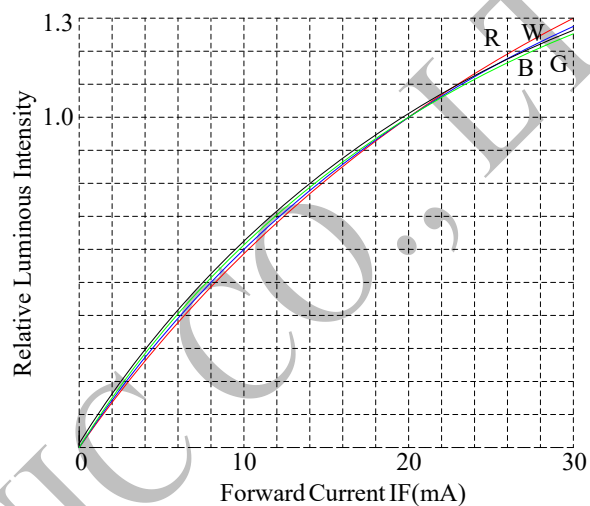
Typical Electro-Optical Characteristics Curves

FORWARD CURRENT VS. FORWARD VOLTAGE

电流与电压的关系图

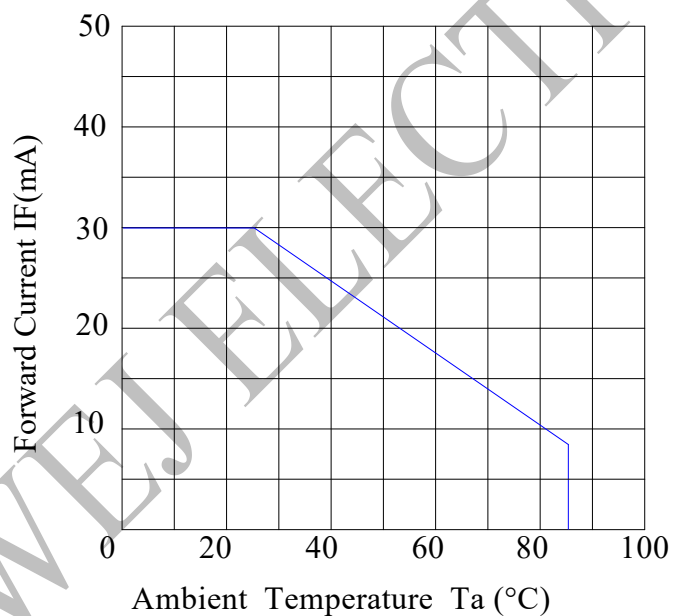


FORWARD CURRENT VS. LUMINOUS INTENSITY



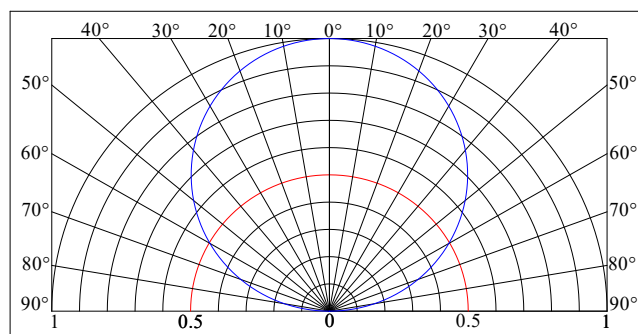
AMBIENT TEMPERATURE VS. FORWARD CURRENT

电流与温度的关系图



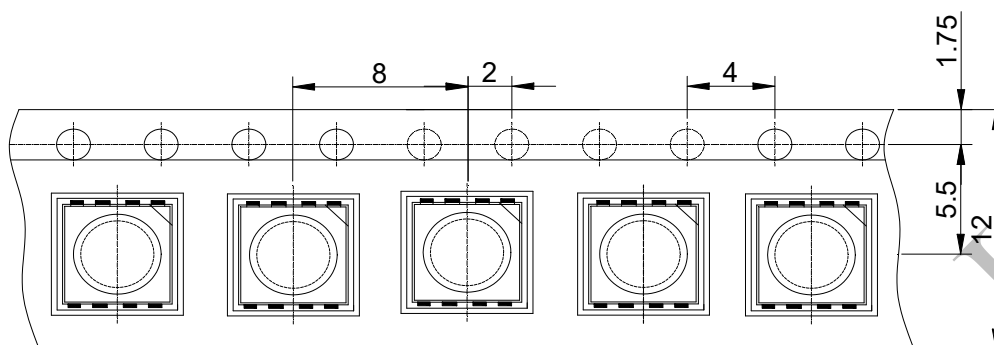
RADIATION DIAGRAM

视角图



Packaging Dimensions Specification(包装规格)

1、Carrier tape dimensions(载带包装)



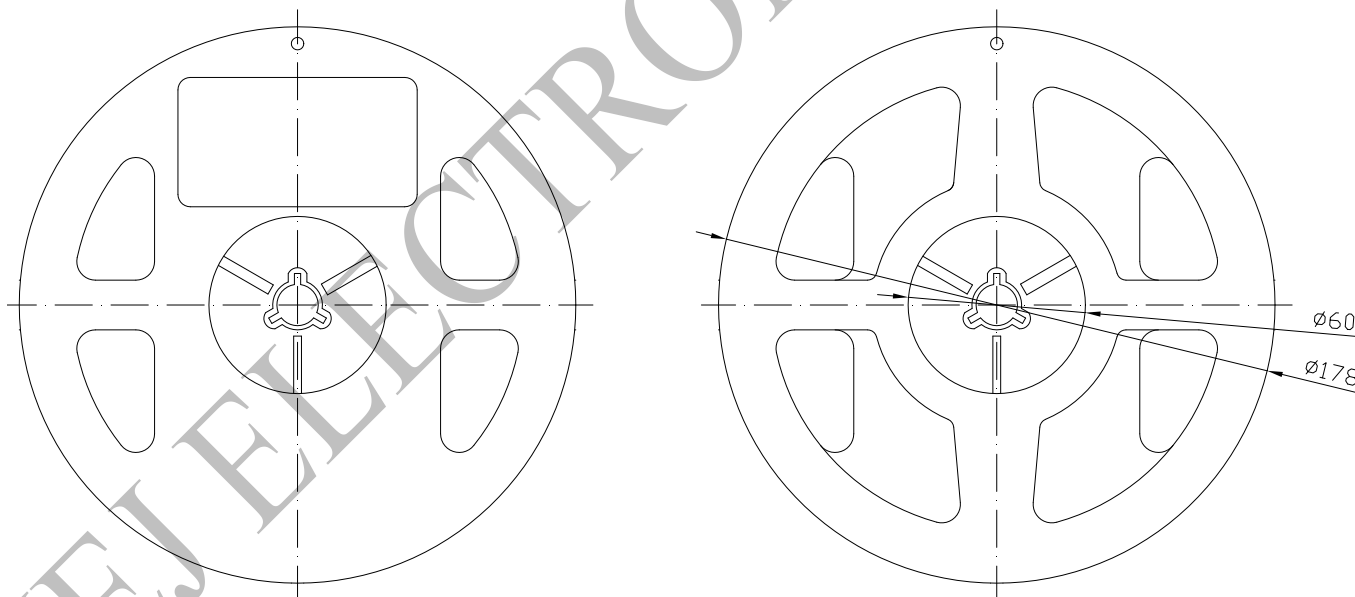
Notes:

- 1) .All dimensions are in millimeters;
- 2) .Tolerance is ± 0.25 unless otherwise noted.
- 3) 1000PCS/Reel

Notes:

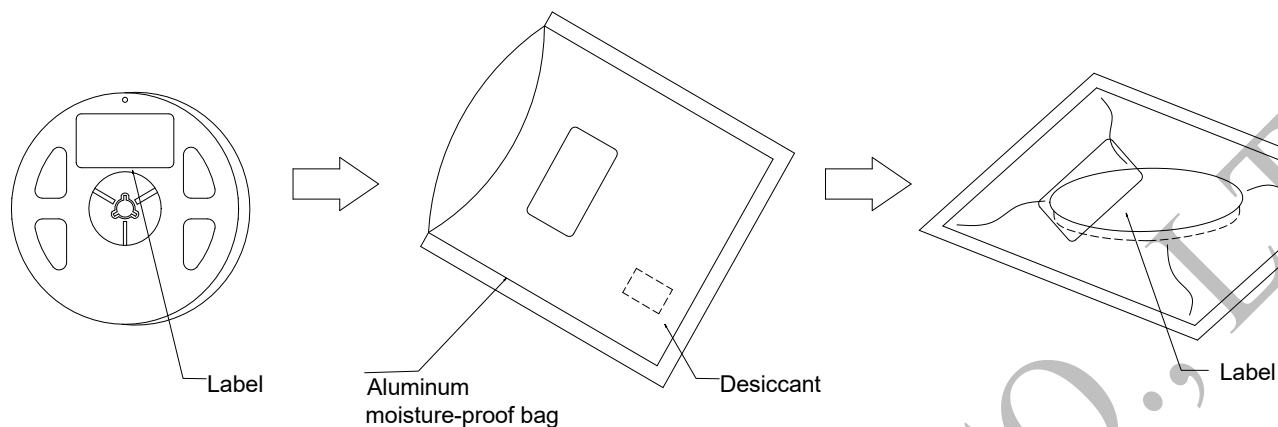
A、 empty tape; B、 loading tape; C、 empty tape.

2、 Reel dimensions(带盘尺寸)



Packaging Dimensions Specification(包装规格)

3、Moisture-Proof and anti-static electricity(防潮抗静电包装)



4、Label(标签)

深圳市永而佳实业有限公司 SHENZHEN YONGERJIA INDUSTRY CO., LTD.	
Product No. :***** Lot No. : Part No. :***** MSL: LEVEL-5a Q'TY:***** Date:***** Tel: 86-755-29785600 Fax: 86-755-29785100 使用前除湿条件: 65±5℃烘烤 24 小时	

Label Explanation:

VF	: Forward voltage (正向电压)
WD	: Dominant wavelength (主波长)
IV	: Luminous Intensity (亮度)

SMD LED 使用作业说明

Operating Instruction

使用场所：地板、桌面须防静电，机台仪器须接地，操作人员穿防静电服佩戴静电环，开启离子风机，地线必须和大地连通良好（连接大地处建议埋铜棒连接）。

Using place: The floor and desktop must be anti-static. The machine must be grounded and the operator should wear anti-static clothing & an electrostatic ring, turn on the ion fan, and the ground wire must be well connected to the ground (the ground connection is recommended to be buried in copper rods).

1、进料检验(Inspection)

检验场地应充分做好静电防护，须使用静电桌面、离子风机、防静电手环、防静电材料托盘或周转盒，检测设备仪器必须严格接地，操作环境温度不高于 30℃，湿度不高于 60%RH。

1.1 The inspection place should be protected against static electricity, and must use static desktops, ion fans, anti-static wristbands, anti-static material trays or turnover boxes. Testing equipment must be strictly grounded, and the operating environment temperature should not be higher than 30℃, and the humidity should not be high at 60%RH

在检验过程中人员必须穿防静电服、戴静电环和手套，检测仪器接地良好，在离子风机开启的情况下进行，抽检产品铝箔袋包装开封后 1 小时内完成检验，检验完成后应及时真空封口，抽检的材料要做好标识区分优先使用，避免产品受潮。

1.2 During the inspection, the inspector must wear anti-static clothing, electrostatic rings and gloves, and the testing equipment should be well grounded. The inspection should be done with the ion blower turned on. The inspection should be completed within 1 hour after packing is opened. After the inspection is finished, it should be vacuum sealed in time. The materials should be marked and be used priority to avoid the product from getting damp

2、储存(Storage)

产品所使用的支架为镀银支架，请各客户特别注意产品的仓储、工作台面、设备表面、模具、人员等慎用含硫、含有腐蚀性的消毒剂（抗击疫情中较为常见使用的 84 消毒液其主要成分为次氯酸钠，而次氯酸钠具有较强的腐蚀性，接触 LED 器件会对器件产品的功能及长期寿命造成不可逆损伤），避免 LED 器件产品受到污染而导致产品不良和损失。

2.1 The LEDs is silver-plated bracket. Please pay attention to be cautious in using sulfur and corrosive disinfectants on the storage, work surface, equipment surface, mold, personnel etc to avoid the pollution of the LED and lead to product failure and loss. (84 commonly used in the fight against COVID-19) The main component of the disinfectant sodium hypochlorite and sodium hypochlorite is highly corrosive. Touching with the LED device will cause irreversible damage to the function and long-term life)

2.2 产品包装在开封前，储存在温度≤30℃,湿度≤60%RH 的环境中。

2.2 The LEDs should be stored at a temperature ≤ 30 °C, humidity ≤ 60% RH Environment before packing is opened

3、使用(Usage)

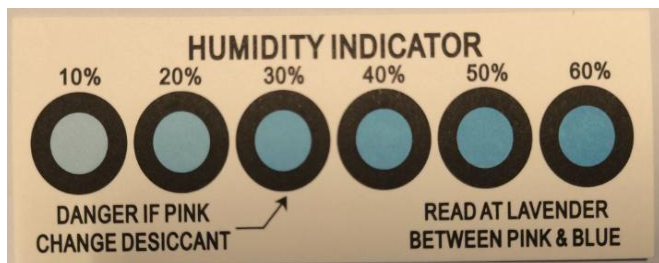
产品在拆袋除湿前请核对产品包装标签上的包装日期，按先进先出原则作业使用，如果在未拆包装袋前发现包装破损漏气胀气，真空失效的请退回我司。

3.1 Please check the packing date on the label before opening and dehumidifying, and use them according to the

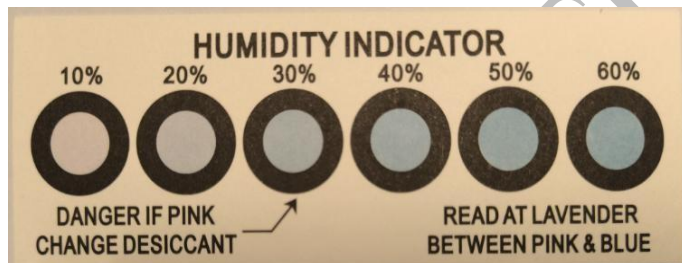
first-in-first-out principle. If the packing is found to be damaged and leaky before opening, please return back to us if the vacuum fails

产品开包时必须检查湿度卡是否正常，圆点标识蓝色为正常，30%圆点处变淡蓝色为已受潮，请退回我公司。

3.2 When the product is opened, the humidity card must be checked whether it is normal. The blue dot mark is normal, and the 30% dot becomes light blue. The color is damp, please return back to us



正常品



30%处为淡蓝色



产品 SMT 回流焊之前必须进行拆袋除湿，连同卷盘放到烤箱里面除湿,产品拆袋后需在 30 分钟内安排除湿作业，根据产能合理预估拆袋除湿数量，除湿条件：烤箱温度 65- 70℃,烘烤时间 24 小时；产品在除湿时请不要中途开关烤箱门，材料放置占烤箱总容积的 80%左右，材料不能挡住烤箱内出风口。

3.3 The product must be unpacked and dehumidified before SMT reflow soldering, and placed in the oven together with the reel to dehumidify. After the product is unpacked, the dehumidification must be arranged within 30 minutes. The amount of dehumidification must be reasonably estimated according to the production capacity. The dehumidification condition: oven temperature 65- 70℃, baking time for 24 hours; please do not open or close the oven door midway when the product is dehumidifying, the material should be placed about 80% of the total volume of the oven, and the material cannot block the air outlet in the oven



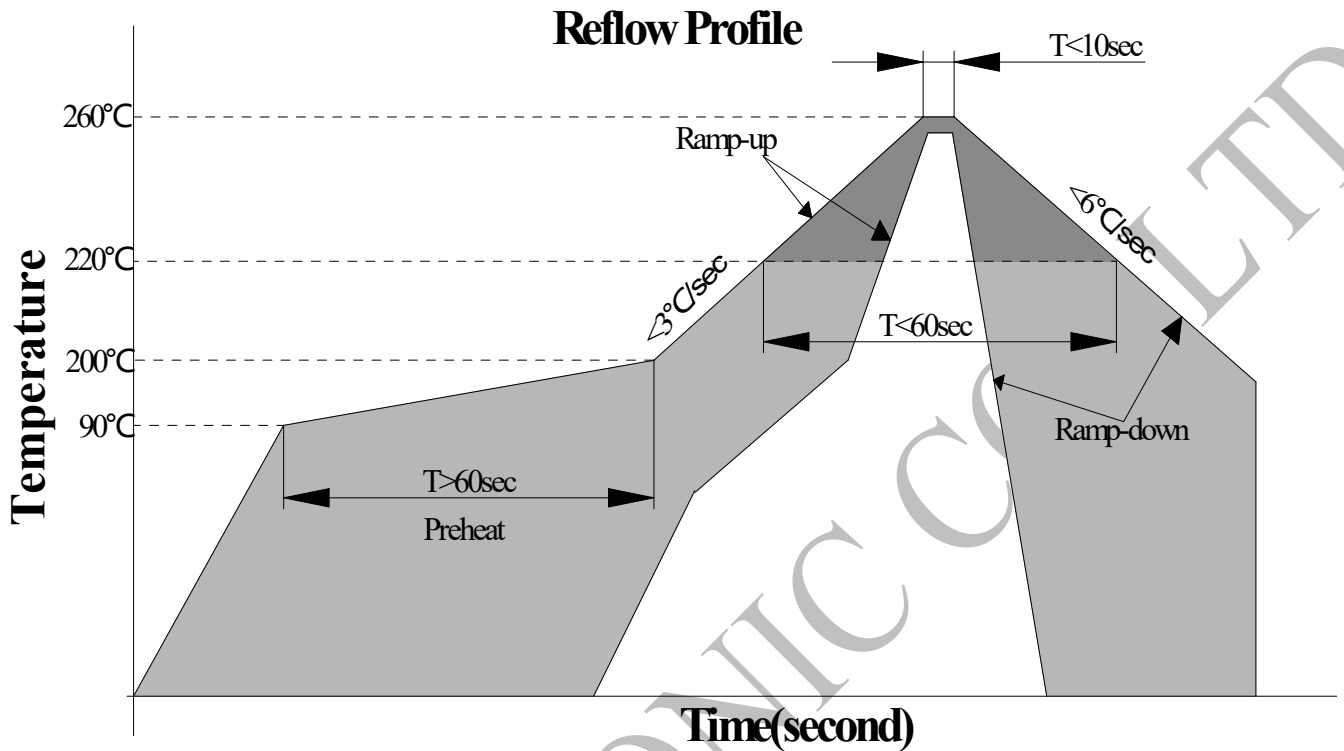
产品除湿完成后按生产所需陆续取出灯珠使用，车间环境要求：温度 $\leq 30^{\circ}\text{C}$ ，湿度 $\leq 60\%\text{RH}$ 。

3.4 After completing dehumidification, the LEDs should be taken out according to using needs. The workshop environment requirements: temperature $\leq 30^{\circ}\text{C}$, humidity $\leq 60\%\text{RH}$

除湿完成后的灯珠在没上回流焊之前应储存在温度不高于 30°C ，湿度不高于 $30\%\text{RH}$ 的环境中，并在 10 小时内完成回流焊作业，未用完的尾数，请累积（一个月）退回我公司。

3.5 The LEDs after dehumidifying should be stored in where the temperature is $\leq 30^{\circ}\text{C}$ and the humidity is $\leq 30\%\text{RH}$ before reflow soldering, and the reflow soldering operation should be completed within 10 hours. Please accumulate (one month) to return to us.

4、应用及回流焊要求(Reflow soldering requirements):



回流焊注意事项 (Notes)

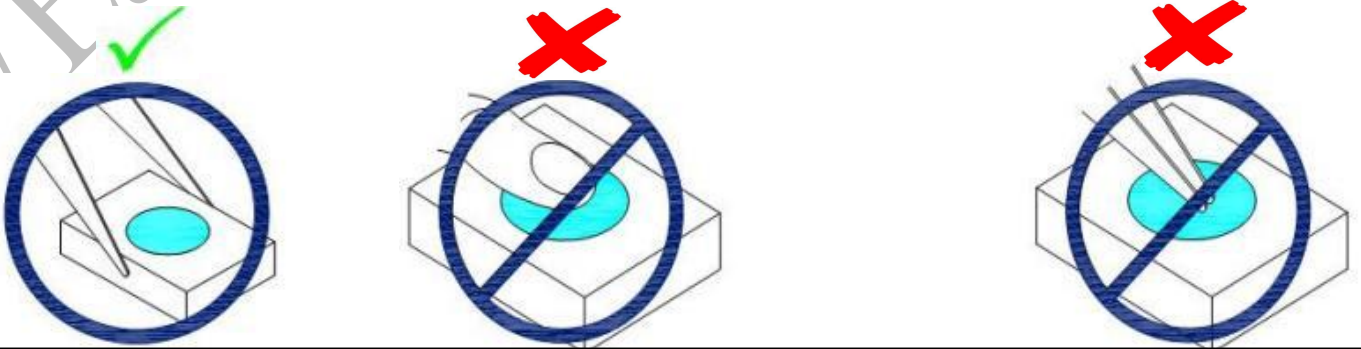
4.1 注意回流焊不可超过两次

No more than twice for reflow soldering.

4.2 为保证产 LED 质量及可靠性, 请勿直接触摸或操作 LED 硅胶透镜表面, 这可能会损坏内部的电路

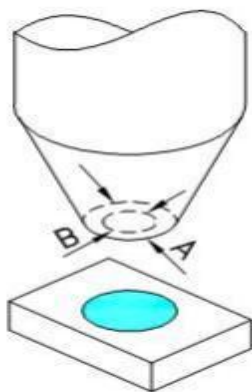
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To ensure the quality and reliability of the LED production, do not directly touch or operate the surface of the LED silicone lens, which may damage the internal circuit



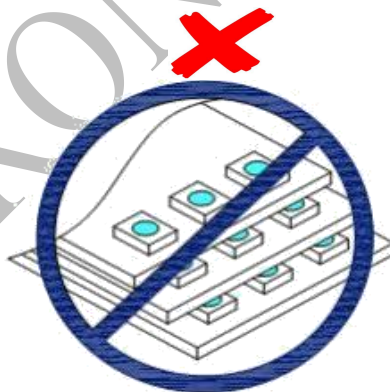
4.3 在吸嘴的选取上要选择吸嘴的大小和压力合适的吸嘴，以避免造成压力过大伤害产品（*SMT 贴片时吸嘴不能直接吸取硅胶顶部）。

Please choose the right nozzle to avoid the damage to products due to the pressure (* The suction nozzle shall not directly absorb the silicone top during the SMT patch).



4.4 若 PCB 上已贴装了 LED 且暴露在外，请勿将 PCB 跌成堆。相互间的挤压可能会划伤硅胶透镜表面或破坏内部电路。

Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



4.5 LED 为静电敏感产品，使用时请佩带防静电手环，工作台做好防静电处理，机台设备等保证接地。

Please put on the antistatic hand loop during the use. The worktable should be with antistatic finish. The equipments must be contacted with ground

手工焊接 (Hand soldering):

4.6 手工焊接时, 要保持电烙铁温度在 350 摄氏度以下, 并且焊接时间小于 3 秒, 电烙铁不可接触胶体。

During the soldering, the electronic soldering iron must be kept under the temperature of 350℃ and the soldering time must not be beyond 3 seconds. No touch between the electronic soldering iron and colloid

4.7 手工焊接只可进行一次, 重复焊接不保证产品是否完好。

Handwork soldering is only allowed once. We won't take responsibility for more than that.

4.8 避免使用尖锐的物体直接接触产品胶体部分。

Avoid using sharp objects to compress products Colloidal Part directly

4.9 LED 为静电敏感产品, 使用时请佩带防静电手环, 工作台做好防静电处理, 机台设备等保证接地。

Please put on the antistatic hand loop during the use. The worktable should be with antistatic finish. The equipments must be contacted with ground.

5、静电防护 (Static electricity protection)

静电或电涌会导致产品特性发生改变, 例如正向电压降低, 如果情况严重甚至会损毁产品, 所以在使用时必须采取有效的防静电措施; 所有相关的设备和机器都应该正确接地, 同时必须采取其他防止静电和电涌的措施, 使用静电手环, 防静电垫子, 防静电工作服, 工作鞋, 手套, 防静电容器, 都是有效的防止静电和电涌的措施。

Static electricity or surge voltage damages the LEDs. Damaged LEDs will show some unusual characteristic such as the forward voltage comes lower, or the LEDs do not light at the low current .even not light.

All devices, equipment and machinery must be properly grounded. At the same time ,it is recommended that wrist bands or anti-electrostatic gloves, anti-electrostatic containers be used when dealing with the LEDs .

6、眼睛防护 (Safety advice for human eyes)

LED 发光时, 请勿直视发光光源, 特别是对于一些光强较高的 LED, 强光可能伤害你的眼睛。

Viewing direct to the light emitting center of the LEDs, especially those of great luminous Intensity will cause great hazard to human eyes .Please be careful.

7、设计建议 (Design consideration)

设计带有 LED 产品的电路时, 通过 LED 的电流不能超过规定的最大值, 同时还需使用保护电阻, 否则微小的电压变化将会引起较大的电流变化, 可能导致产品损毁。

In designing a circuit about LED, the current through each LED must not exceed the absolute maximum rating specified for each LED. In the meanwhile, resistors for protection should be applied, otherwise slight voltage shift will cause big current change, burn out may happen.