规格书 Product specification

<i>客户名称:</i> Customer	
客户商品代码: Customer Type	
昂名 : Product _	
- <i>产品型号:</i> RART -	TX-TBBYBMRDL-ZS-06
审核: CHeck _	
<i>制作:</i> Design _	
日期: Date _	2024.07.10

TEL: 0769-21683819



Characteristics 特点:

1.6mm 0.8mmSMTLED, 0.65mm thickness.

长1.6毫米 宽0.8毫米,厚0.65毫米.

Luminous color and colloid: Blue/colloid transparent.

发光颜色和胶体:蓝色/胶体透明.

Package: 4000pcs/reel

包装:4000个/卷

Features 产品特征:

Small size, small heat, high light efficiency, low light decay. 体积小,发热量小,光效高,光衰小.

Fast reaction speed, long life, a variety of colors to choose.

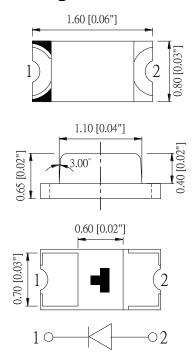
反应速度快,寿命长,有多种颜色可供选择.

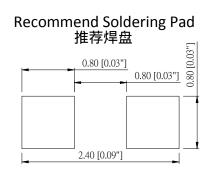
Suitable for SMT assembly and welding processes.

适用于SMT组装和焊接工艺.

Environmental protection process meets ROHS environmental requirements. 环保工艺符合ROHS环保要求.

Package Dimension 外观尺寸:





Tips: This product is only suitable for indoor, consumer category indicator light, if there are other uses, please consult our business recommendation.

温馨提示:此款产品仅适用于室内, 消费品类指示灯,如有其他用途需 要具体请咨询我们业务推荐。

Notes 备注:

- 1. All dimensions are in millimeters (inches); 所有尺寸均以毫米(英寸)为单位;
- 2. Tolerances are 0.1mm 0.004inch unless otherwise noted. 除非另有说明,公差0.1mm0.004英寸。



Absolute maximum ratings (TA=25℃) 绝对最大额定值(TA=25)

Parameter 参数	Symbol符号	Value 数值	Unit 单位
Forward current 正向电流 www.taixingled.com	If	5	mA
Reverse voltage 反向电压	Vr	5	V
Power dissipation 功耗	Pd	15	mW
Operating temperature 工作温度	Тор	-40 ~+85	$^{\circ}$
ESD(Human-body mode 静电		2	KV
Storage temperature 储存温度	Tstg	-40 ~+85	°C
Peak pulsing current (1/8 duty f=1kHz) 峰值脉冲电流	Ifp	20	mA

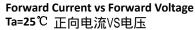
Electro-optical characteristics (TA=25℃) 光电特性(TA = 25) www.taixingled.com

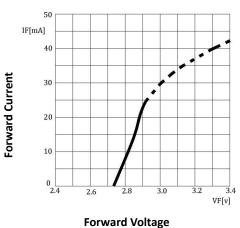
Parameter 参数	Test Condition 测试条件	Symbol 符号	Value 数值			Unit
			Min最小	Typ 中间	Max 最大	単位
Wavelength at peak emission 峰值发射波长	If=5mA	λр		465		nm
Spectral half bandwidth 半波宽	If=5mA	Δλ		25		nm
Dominant wavelength 主波长	If=5mA	λd	460		470	nm
Forward voltage 正向电压	If=5mA	Vf	2.6		3.2	V
Luminous intensity 光强度	If=5mA	lv	15		50	mcd
Viewing angle at 50% lv 50%视距下的视角	If=10mA	201/2	www.taixi 	ngled.com 120		Deg
Reverse current 反向漏电流	Vr=5V	lr			10	μΑ

www.taixingled.com

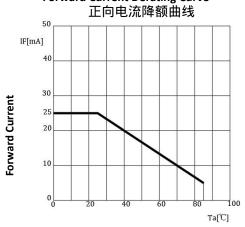
Typical Optical Characteristics Curves 典型光学特性曲线

www.taixingled.com



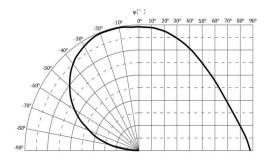


Forward Current Derating Curve

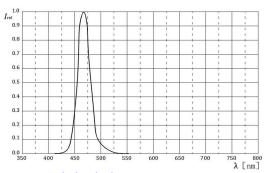


Ambient Temperature

Radiation Characteristics 辐射特性 IF=10mA Ta=25℃



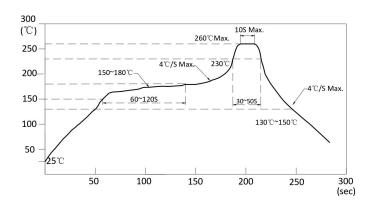
Relative Spectral Emission 相对光谱发射 IF=5 mA, Ta=25 ℃



www.taixingled.com

Reflow Profile 炉温

■ Reflow Temp/Time 回流焊温度/时间 www.taixingled.com



Notes: 備注:

1. We recommend the reflow temperature 245 $^{\circ}$ C (±5 $^{\circ}$ C). The maximum soldering temperature should be limited to 260 $^{\circ}$ C www.taixingled.com

我们推荐回流温度为245 (±5)。最高焊接温度应限制在260。

- 2. Don't cause stress to the epoxy resin while it is exposed to high temperature. 环氧树脂暴露在高温下时不要对其造成应力。
- 3 Number of reflow process shall be 2 times or less. 回流焊次数不超过2次。

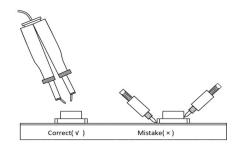
■Soldering iron 烙铁使用

Basic spec is \leq 5sec when 320°C (±20°C). If temperature is higher, time should be shorter (+10°C \rightarrow -1sec). Power dissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface temperature of the device should be under 350°C

基本规格为320 (±20)时5秒。温度越高,时间越短(+10 -1秒)。烙铁的功耗应小于20W,温度应可控设备温度应在350 以下。

■Rework 返工

- 1. Customer must finish rework within 5 sec under 340℃. 客户必须在340 下5秒内完成返工。
- 2. The head of iron cannot touch copper foil 。 铁头不能碰到铜箔。
- 3. Twin-head type is preferred. . 首选双头型。 www.taixingled.com



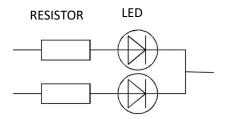


■ Avoid rubbing or scraping the resin by any object, during high temperature, for example reflow solder etc. 避免任何物体摩擦或刮擦树脂,在高温下,如回流焊等。

Handling precautions 使用处理措施 www.taixingled.com

1.Drive Method, 驱动方法

A LED is a current-operated device. In order to ensure intensity uniformity on multiple LEDs connected in parallel in an application, it is recommended that a current limiting resistor be incorporated in the drive circuit, in series with each LED as shown in Circuit below. LED是电流操作的器件。为了确保应用中并联的多个LED的强度均匀性,建议在驱动电路中加入一个限流电阻,与每个LED串联,如下图所示:



2. Storage 储存

- 2.1 Do not open moisture proof bag before the products are ready to use. 在产品准备使用之前,请勿打开防潮袋。
- 2.2 Before opening the package: The LEDs should be kept at 30℃ or less and 60% RH or less. 打开包装前: Ied应保持在30 以下,60%RH以下。
- 2.3 After the package is opened, the products should be used within a week or they should be keeping to store at \leq 20 R.H. with zip-lock sealed.

打开包装后,产品应在一周内用完或以 20R.H.的温度保存,并以拉链密封。

3. Baking 烘烤处理

It is recommended to baking before soldering when the pack is unsealed after 72hrs. The Conditions are as followings: 当包装在72小时后打开密封时,建议在焊接前进行烘烤。条件如下:

- 3.1 60±3 $^{\circ}$ C x(12 $^{\sim}$ 24hrs) and <5%RH, taped reel type
- 3.2 100±3 °C x (45min~1hr), bulk type
- 3.3 130±3°C x (15~30min), bulk type



Test items and results of reliability 可靠性测试专案及结果

Test Item 测试项目	Test Conditions 测试条件	Standard Test Method 标准试验方法	Note 注意	Number of Test 测试次数
Reflow Soldering 静态回流焊	Ta=260±5℃,Time=10±2S	JB/T 10845-2008	3times	0/22
Temperature Cycling 静态温度迴圈	-40±5°C 30±1min ↑→(25°C/5±1min)↓ 100±5°C 30±1min	GB/T 2423.22-2012	100cycles	0/22
High Humidity High Temp. Storage Life 静态高温高湿	Ta=85±5℃,ψ(%)=85±5%RH	GB/T 2423.3-2006	1000hrs	0/22
High Temperature Storage Life 静态高温储存	Ta=100±5℃,non-operating	GB/T 2423.2-2008	1000hrs	0/22
Low Temperature Storage Life 静态低温储存	Ta=-40±5 [°] C,non-operating	GB/T 2423.1-2008	1000hrs	0/22
Life Test 动态室温通电	Ta=26±5℃,@5 mA, ψ(%)=25%RH∼55%RH		1000hrs	0/22
Low Temperature Operating Life 动态低温通电	a=-20±5℃,@5 mA	GB/T 2423.1-2008	1000hrs	0/22

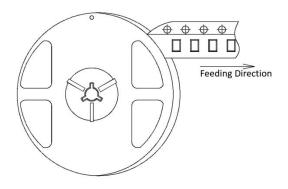
Notes 备注:

- 1. The tolerance of luminous intensity (Iv)is ±15% .发光强度(Iv)公差为±15%。
- 2. The tolerance of dominant wavelength is ±2nm. 主导波长公差为 ± 2nm。
- 3. The tolerance of Voltage is ±0.1V. 电压公差为 ±0.1V www.taixingled.com
- 4. This specification is a standard specification of our factory, can make in accordance with customer's special requirement. 本规格为我厂标准规格,可根据客户的特殊要求定做。

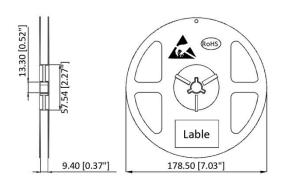


Series SMD Chip LED Lamps Packaging Specifications系列贴片 led灯封装规范

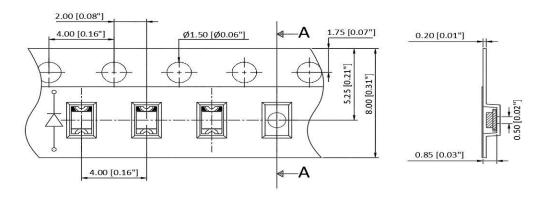
● Feeding Direction 编带方向



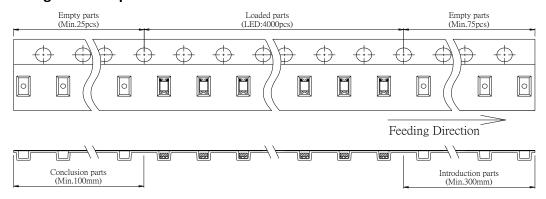
● Dimensions of Reel (Unit: mm) 卷盘尺寸



● Dimensions of Tape (Unit: mm)胶带尺寸(單位:mm)



Arrangement of Tape 编带方式



Notes 备注:

- 1. Empty component pockets are sealed with top cover tape;B 用顶盖胶带密封空部件口袋;
- 2. The maximum number of missing lamps is two; 最多漏灯为2个
- 3. 4,000pcs/Reel. 4000个每盘



Series Chip LED Lamps Packaging Specifications 系列贴片 led灯封装规范

● Transportation Packing 运输包装

www.taixingled.com

