



产 品 规 格 书



产品型号（Product Model）：KT-3528W

产品描述（Product Description）：KT-3528 正白光 0.06 瓦 3 伏

产品制造商：

Product manufacturer:

市场部 Market department	核准 approval	编制 authorized strength	时间 time

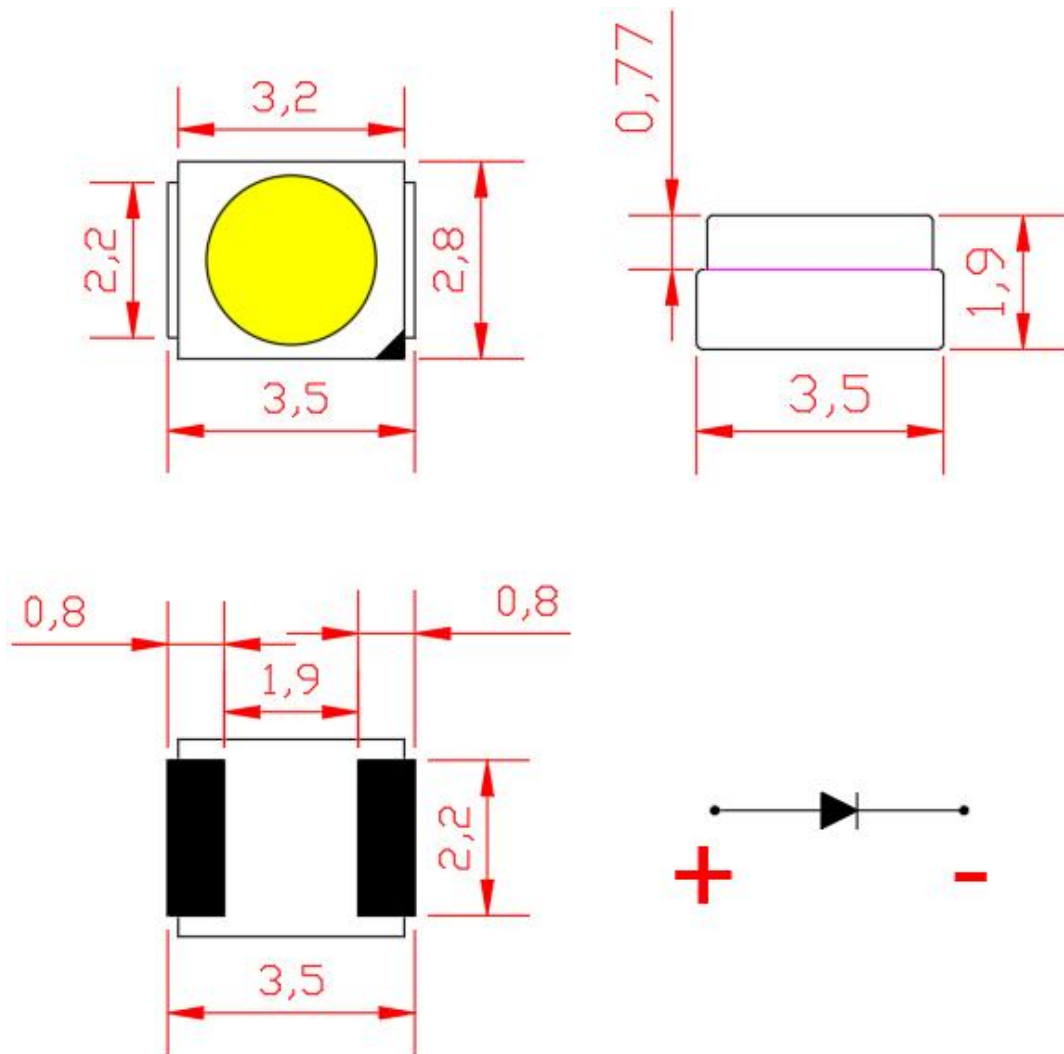
产品应用商：

Product application:

核准 approval	确认 affirm	时间 time

- 长寿命 (Long operating life)
- 低维护成本 (Reduced maintenance costs)
- 高效 (More energy efficient)
- 低电压直流驱动 (Low voltage DC operated)
- 启动快 (Instant light)
- 无UV (No UV)
- 符合RoHS标准 (RoHS compliant)

■ 外形尺寸 (Outline Dimension)



说明：①所有标注尺寸单位为毫米 (All dimensions are millimeters) ；

②公差为 0.05 毫米 (Tolerance is 0.05 mm) 。



■ 额定值 (Rated value) Ta=25℃

参数 Parameter	符号 Symbol	典型值 Typical	单 Unit
功率耗损 Power dissipation	Pd	64	mW
正向电流 Forward current	If	20	mA
反向电压 Reverse voltage	Vr	5	V
工作温度范围 Operating temperature range	Top	-40 ~+85	℃
贮存温度范围 Storage temperature range	Tstg	-40~+100	℃
最大脉冲电流 Peak pulsing current	Ifp	30	mA
抗静电能力 Electrostatic Discharge	ESD	2000(HBM)	V
焊接温度 Soldering temperature	Tsol	230~260, ≤10s	℃

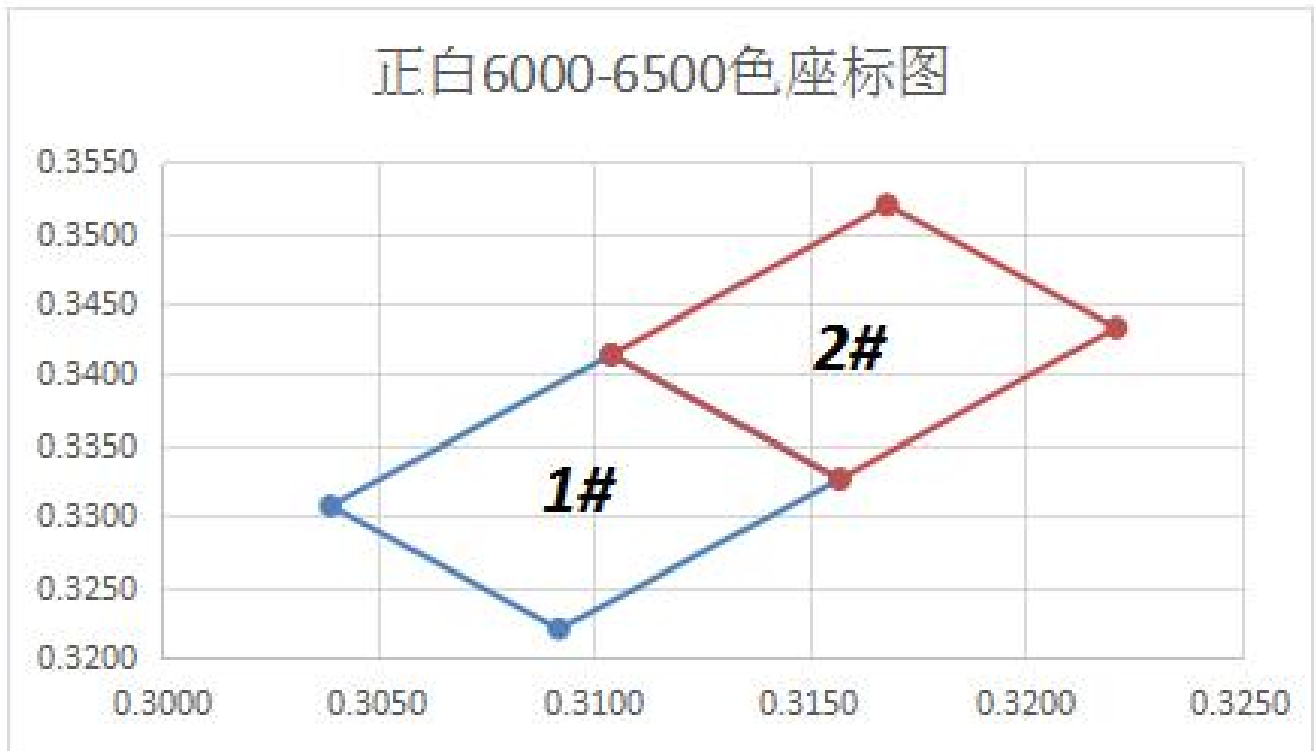
备注：脉冲持续时间 ≤ 10msec, 占空比 ≤ 1/10

IFP Conditions: Pulse Width ≤ 10msec. and Duty cycle ≤ 1/10.

■ 光学特性 (Optical properties) Ta=25℃

项目 Item	测试条件 Test Condition	符号 Symbol	最小值 Min.	典型值 Typ.	最大值 Max.	单位 Unit
正向电压 Forward voltage	If=20mA	Vf	2.8	--	3.4	V
光通量 Luminous intensity	If=20mA	Iv	5	--	6	Lm
显示指数 Color rendering index	If=20mA	Ra	--	70	--	--
色温 Color temperture	If=20mA	CCT	--	6500	--	K
色座标 CIE Chromaticity	If=20mA	X	--	0.31	--	--
	If=20mA	Y	--	0.33	--	--
半功率角 Viewing angle at 50% Iv	If=20mA	2 θ 1/2	--	110	--	Deg
反向电流 Reverse current	Vr=5V	Ir	--	--	5	μA

色座标分布图 (Color coordinate distribution map)

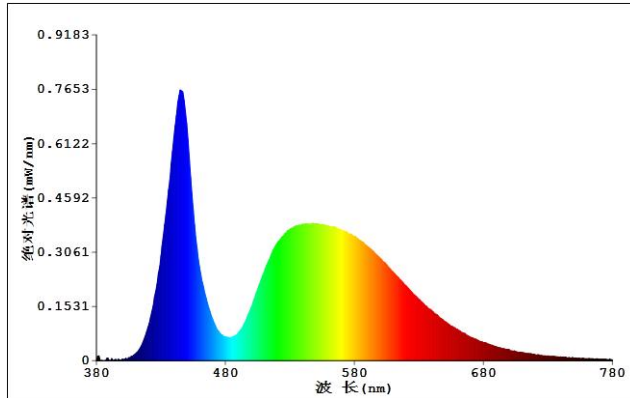


色座标参数 (Chromatic coordinate parameter)

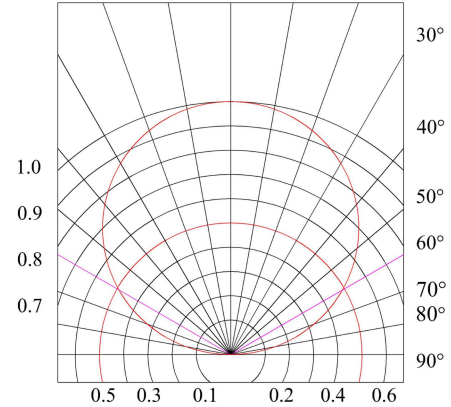
BIN 数	X 坐标	Y 坐标	BIN 数	X 坐标	Y 坐标
1#	0.3104	0.3414	2#	0.3168	0.3520
	0.3039	0.3307		0.3104	0.3414
	0.3092	0.3220		0.3157	0.3326
	0.3157	0.3326		0.3221	0.3433
	0.3104	0.3414		0.3168	0.3520

典型光电特性曲线 (Typical optical characteristics curves)

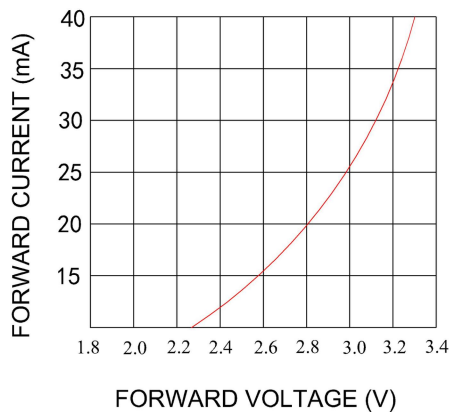
◆ 发射光谱 (Emission spectrum)



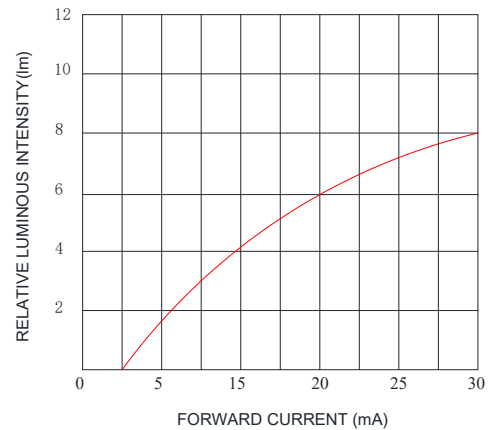
◆ 典型辐射分布图 (Typical radiation distribution map)



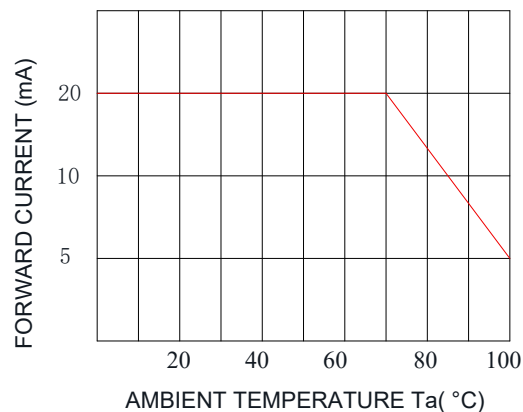
◆ 伏安特性 (V-A characteristic)



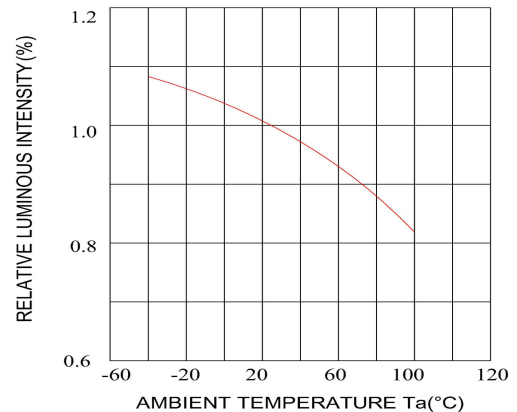
◆ 亮度特性 (Luminance characteristic)



◆ 温度与电流关系 (Temperature and current characteristic)



◆ 温度与亮度关系 (Temperature and brightness characteristic)



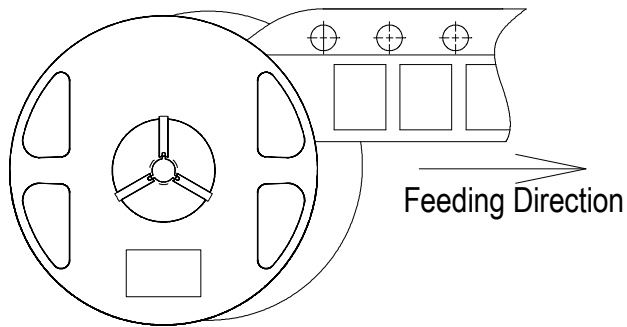


可靠性试验 (Reliability test)

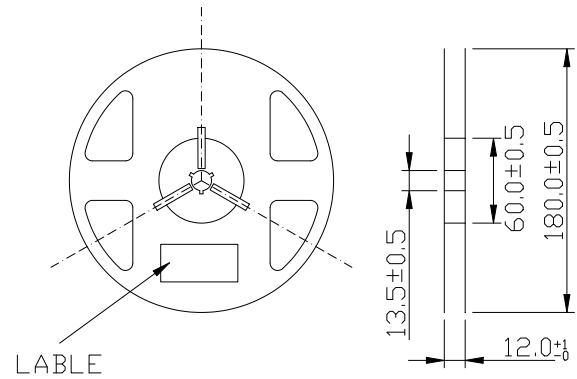
测试项目 Test project	测试条件 Test conditions	测试周期 Test cycle	样品数量 Sample quantity	允收 Ac/Re
常温老化 Normal temperature aging	Ta=25℃ IF=20mA	1000H	22pcs	0/1
高温老化 High temperature aging	Ta=85℃ IF=20mA	1000H	22pcs	0/1
高温存储 High temperature storage	Ta=100℃	1000H	22pcs	0/1
低温存储 Cryogenic storage	Ta=-40℃	1000H	22pcs	0/1
冷热冲击 Thermal Shock	-40℃/30min~ 100℃/30min	100 cycles	22pcs	0/1
回流焊 Reflow test	Ta=260℃ T=10s	3 times	22pcs	0/1
高温高湿老化 High temperature and high humidity aging	85℃/85%RH IF=20mA	500H	22pcs	0/1
硫化实验 Vulcanization experiment	Ta=85℃	2H	10pcs	0/1
红墨水实验 Red ink experiment	Ta=120℃	2H	22pcs	0/1
静电测试 Antistatic test	2000V HBM	5 times/pcs	10pcs	0/1

卷盘包装规格 (Reel packaging specification)

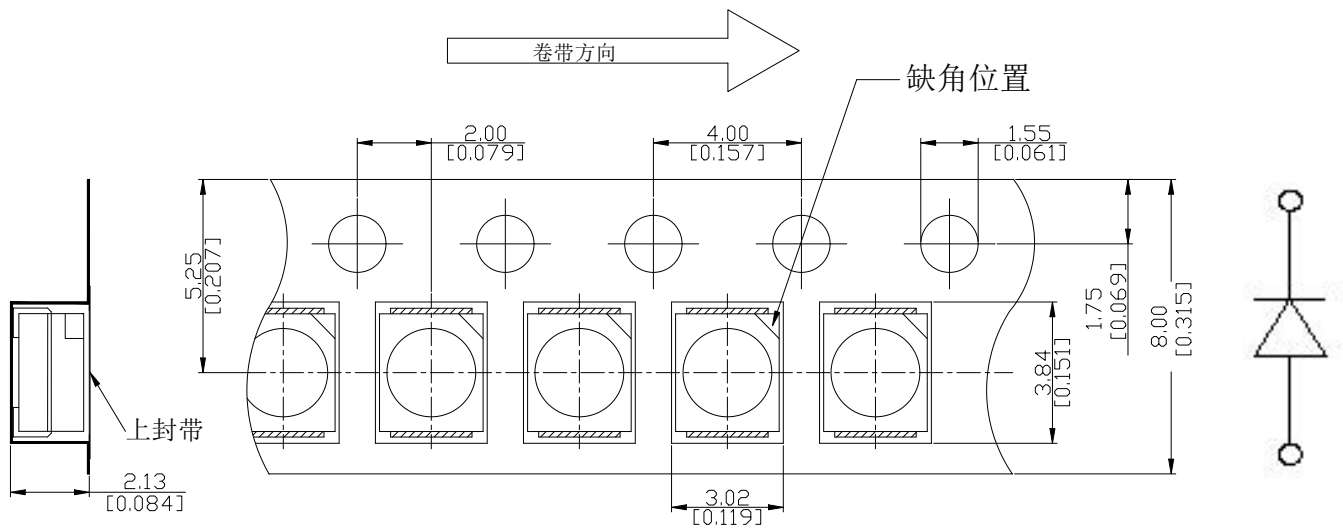
◆ 卷带输送方 (Feeding Direction)



◆ 卷盘尺寸 (Dimensions of Reel)



◆ 卷带尺寸 (Dimensions of Tape)



备注 (NOTES):

- 1、无材料部分同样用上封带密封;

No material part is also sealed with sealing tape.

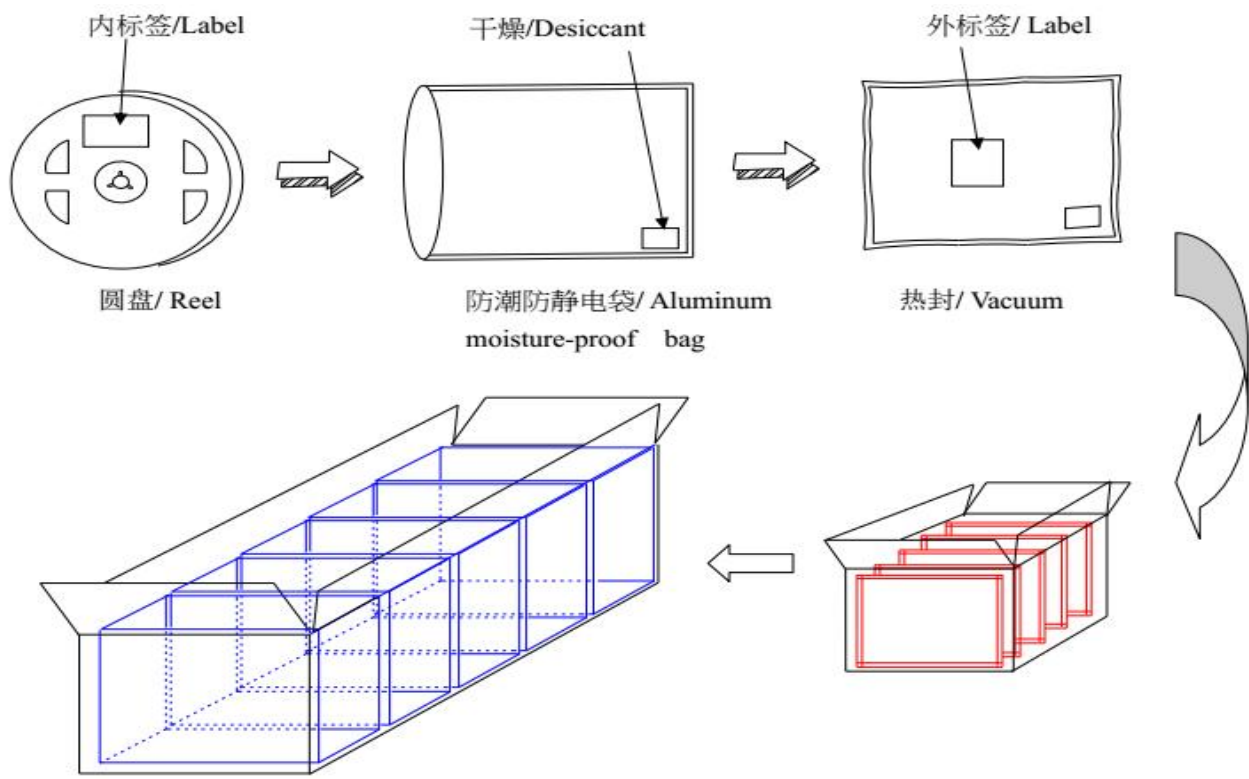
- 2、材料缺口 (负极) 方向, 与卷带齿孔方向一致;

The direction of material gap (negative pole) is the same as that of the coiling hole.

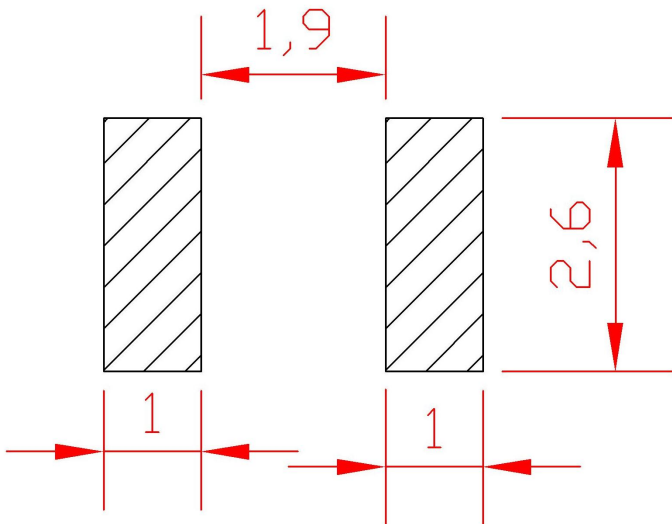
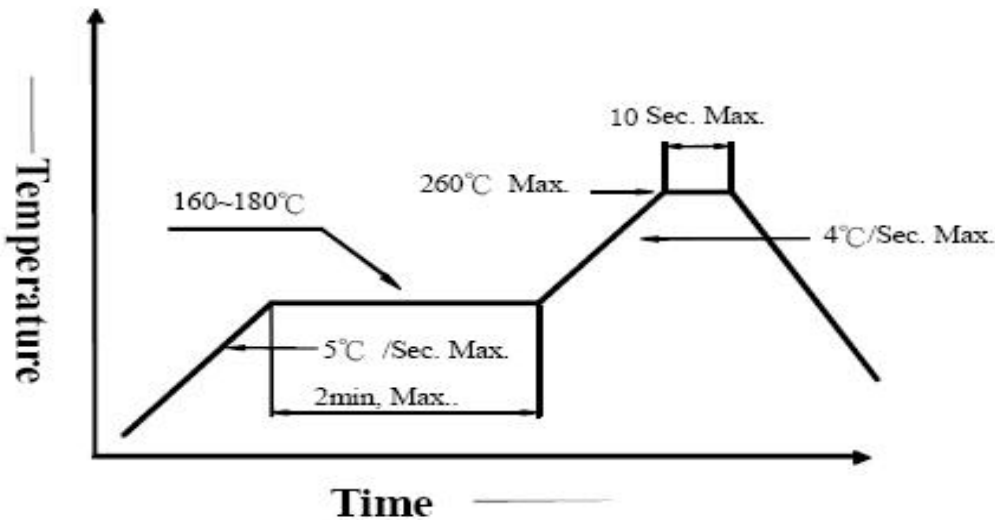
- 3、2000pcs/卷

2000 pcs/ Reel.

■ 纸箱包装规格 (Carton packaging specification)

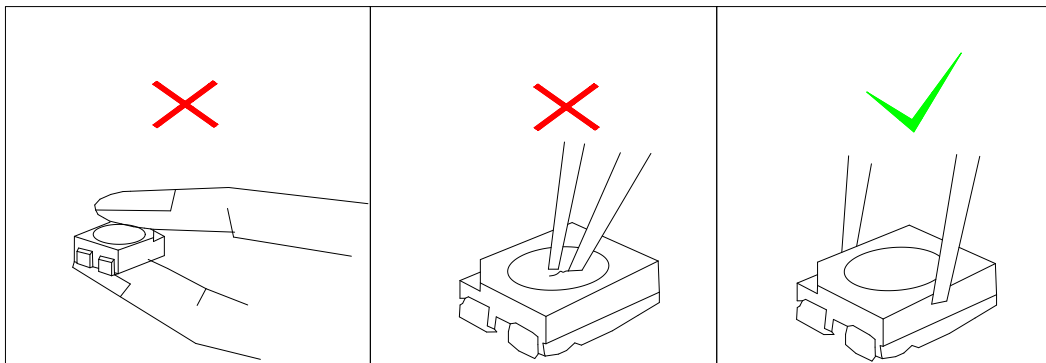


■ 使用重要事项 (Importation for user)

<p>建议焊盘尺寸 (Recommended pad size)</p>	
<p>无铅回流焊规范 (Specification for lead free reflow soldering)</p>	

说明 (Note) :

- 1、焊接时请不要重压 LED 灯 (Do not press LED lamp when welding) ;
- 2、焊接后温度未回降到常温时请勿扭曲线路板 (Do not distort the circuit board when the temperature does not return to normal temperature after welding) ;
- 3、手工焊接时, 烙铁温度不高于 300℃, 每个焊脚焊接时间不超过 3 秒
(The temperature of the iron should be lower than 300℃ and soldering within 3sec per solder-pad is to be observed) ;
- 4、必须注意的是把这些灯放到装置中使用时, 不可接触 LED 灯的胶体表面, 以避免其受到破坏导致死灯或减少光效率.
(Caution must be used in handing this device to avoid damage to the lens surfaces that will reduce optical efficiency) 。



■ 存储重要事项 (Important storage items)

- 1、请在未准备使用 LED 之前不要打开防静电袋子
(Do not open the moisture proof bag before ready to use the LEDs) ;
- 2、LED 在未开封之前应保存在 30℃ 以下, 湿度在 60% 以下的环境中, 最长保存期为 1 年
(The LEDs should be kept at 30℃ or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year) ;
- 3、打开包装待后, LED 需保存在 30℃/40% 湿度以下的条件, 且必须在 12H 内使用完
(After opening the package, the LEDs should be kept at 30℃/40%RH or less, and it should be used within 12 hours) ;
- 4、如果 LED 超出了第 3 点要求, 则 LED 必须经过烘烤才能使用。
烘烤条件为: 60±5℃, 12 个小时
(If the LEDs be kept over the condition of 3, baking is required before mounting.
Baking condition as below: 60±5℃ for 12 hours) 。