



产品规格书

品名: SMDLED
型号: GT-3806UBC
日期: 2016/10/10
版本: A/1

制定 Prepared By	审核 Checked By	批准 Approved By

产品特征 [Features]

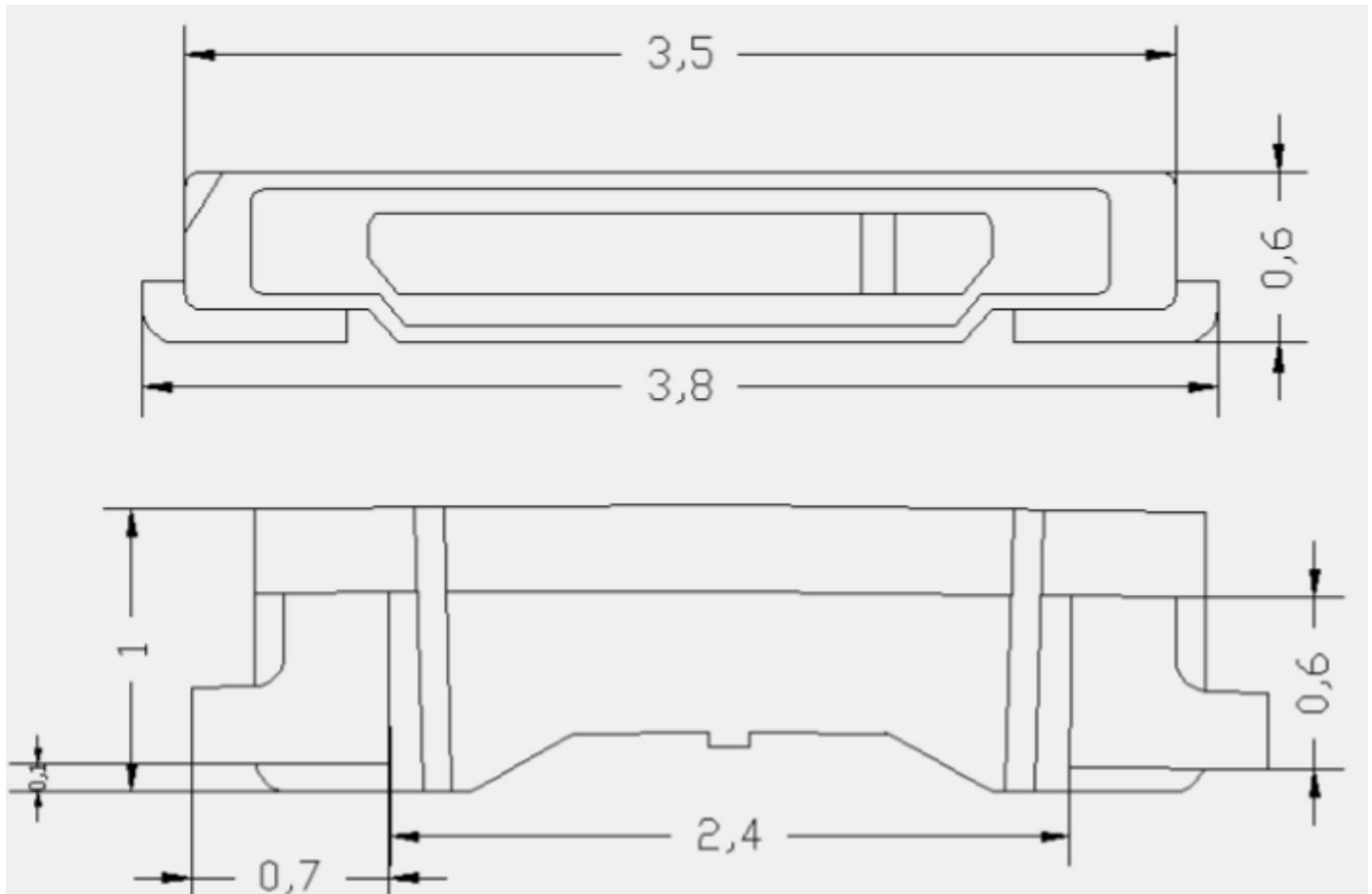
1. 外型尺寸: 3.8×1.0×0.6mm
Outline Package: 3.8×1.0×0.6mm
2. 发光颜色: 蓝
Emitted Color: BLUE
3. 胶体颜色: 白色透明
Lens Appearance: Diffuse
4. 适用于所有表面贴装技术组装生产
Suitable for all SMT assembly methods

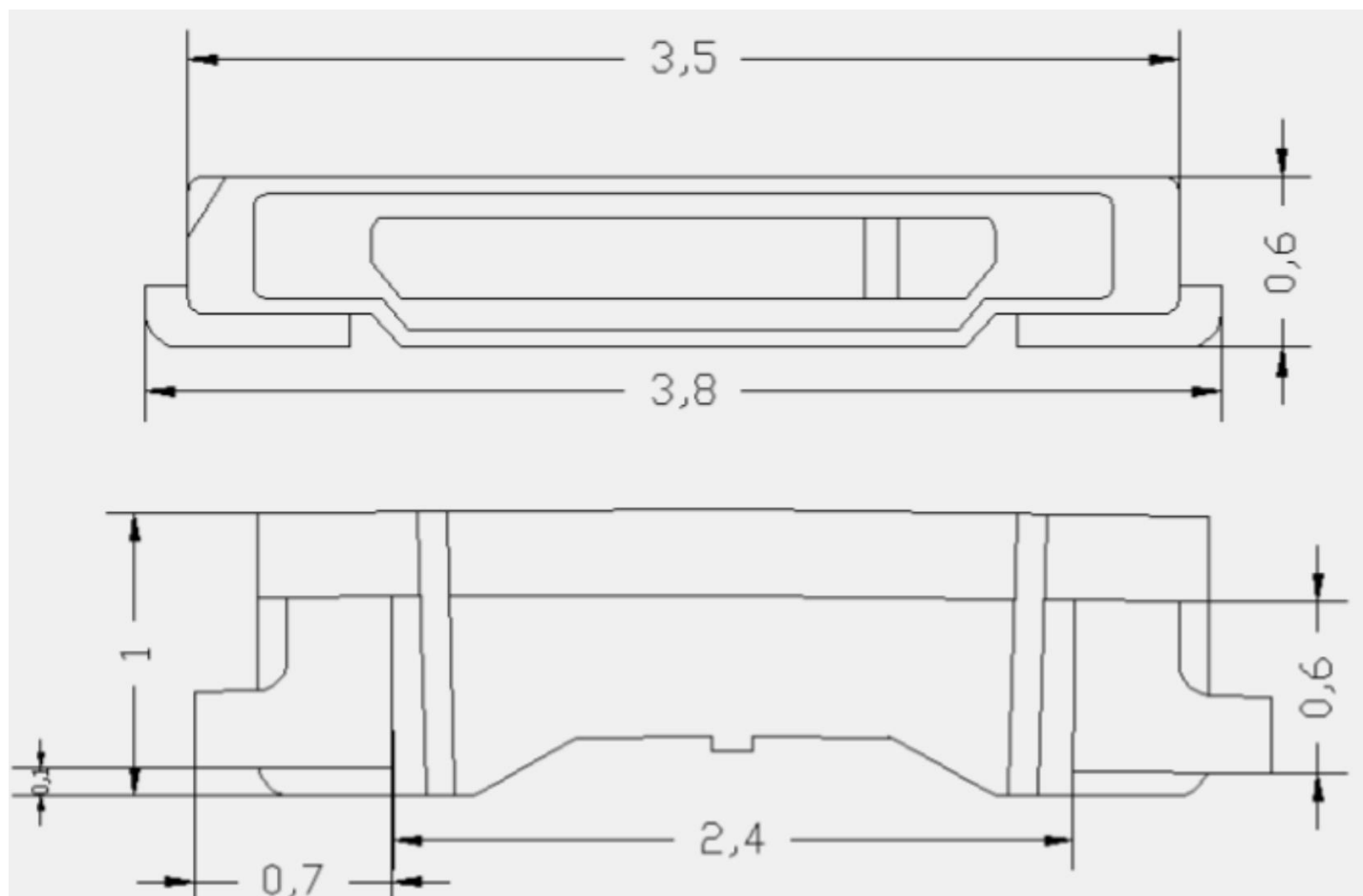
产品应用 [Application]

1. 背光源. 照明. 灯条
Backlighting

尺寸图 [Package Outline Dimensions]

Recommended Soldering Pattern





NOTES:

1. 单位: 毫米 (英寸)

All dimensions are in millimeters (inches);

2. 未标公差处公差为 0.02mm(0.008寸)

Tolerances are 0.02mm (0.008inch) unless otherwise noted.

最大绝对额定值 [Absolute maximum ratings at Ta=25℃]

参数 Parameter	符号 Symbol	典型值 Typical	单位 Unit
功率耗损 Power dissipation	Pd	60	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	100	mA
抗静电能力 Electrostatic Discharge	ESD	2000(HBM)	V
备注：脉冲持续时间≤10msec，占空比≤1/10 IFP Conditions: Pulse Width≤10msec. and Duty cycle≤1/10.			

电性光电特性 [Electrical-optical characteristics at Ta=25℃]

参数 Parameter	测试条件 TestCondition	符号 Symbol	典型值 Typical			单位 Unit
			最小值 Min.	典型值 Typ.	最大值 Max.	
正向电压 Forward voltage	If=20mA	Vf	3.0	3.2	3.4	V
发光亮度 Luminous intensity	If=20mA	Iv	400	500	600	MCD
显示指数 Color rendering index	If=20mA	Ra			--	--
色温 Color tempareture	If=20mA	CCT				K
峰值波长 Peak wave Length	If=20mA	p	460	465	470	nm
主波长 Dominant Wave Lenght	If=20mA	d	465	470	475	nm
半功率角 Viewing angle at 50% Iv	If=20mA	2 θ 1/2	--	120	--	Deg
反向电流 Reverse current	Vr=5V	Ir	--	--	10	μA

波长出货范围 [CIE Chromaticity Diagrams] CCT UNIT: Kelvin

Condition @IF=20mA Unit :mcd TA=25°C		
BIN Code	Min. (NM)	Max. (NM)
1	460	465
2	465	470
3	470	475

亮度出货范围[Light Intensity rank and bin code at IF=20mA,Ta=25°C]

Condition @IF=20mA Unit :mcd TA=25°C		
BIN Code	Min. (mcd)	Max. (mcd)
1	400	450
2	450	550
3	550	600

正向电压出货范围[Forward voltage rank and bin code at IF=20mA,Ta=25°C]

Condition @IF=20mA Unit :v TA=25°C		
BIN Code	Min. (v)	Max. (v)
1	2.8	3.0
2	3.0	3.2
3	3.2	3.4

典型光电特性曲线 [Typical optical characteristics curves]

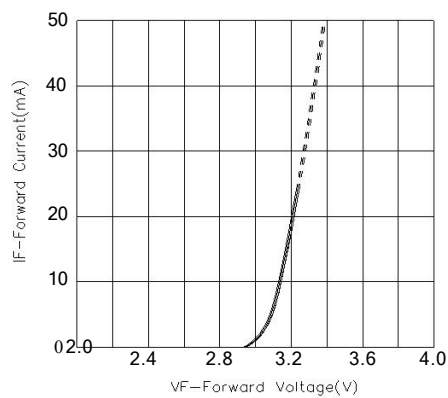


Fig.1 Forward Current vs. Forward Voltage

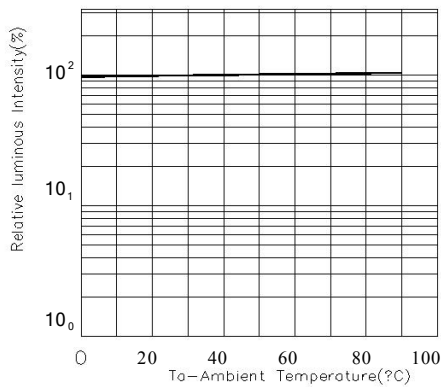


Fig.2 Relative luminous Intensity vs. Ambient Temperature

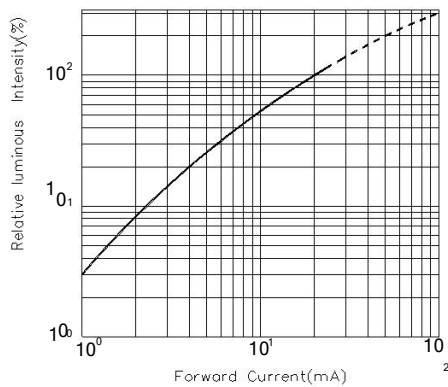


Fig.3 Relative luminous Intensity vs. Forward Current

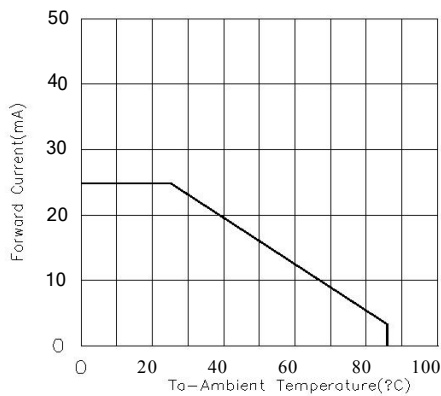


Fig.4 Forward Current vs. Ambient Temperature

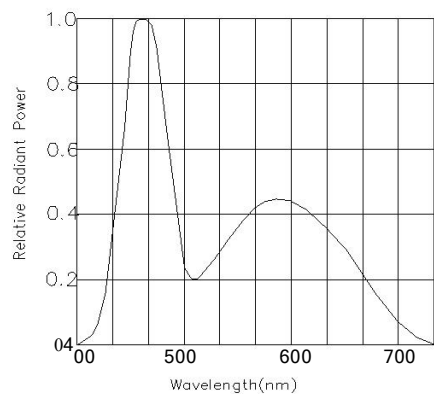


Fig.5 Relative Radiant Power vs. Wavelength

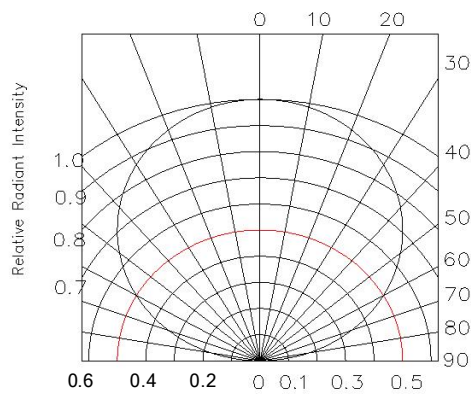
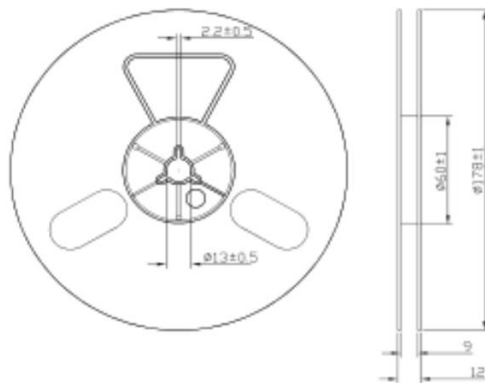


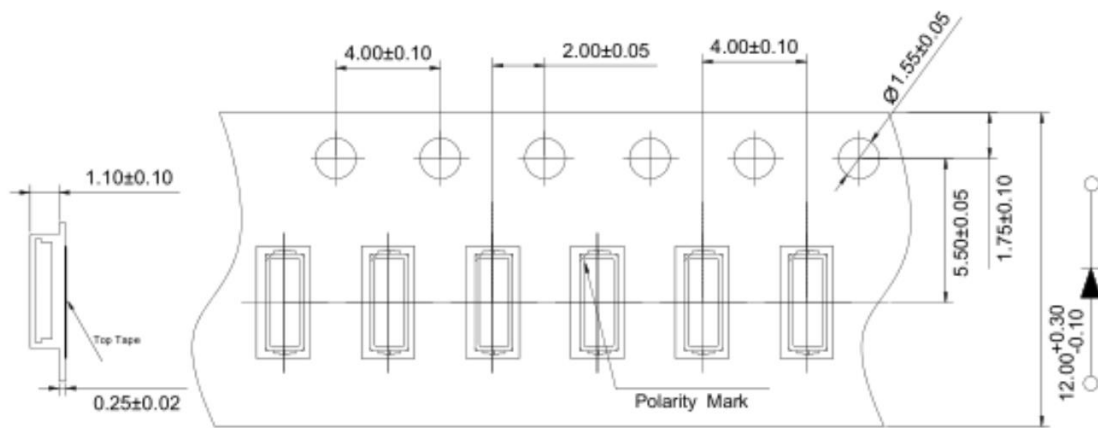
Fig.6 Relative Radiant Intensity vs. Angular Displacement

包装规格 [Packaging Specification]

●卷盘尺寸 Dimensions of Reel (Unit: mm)



●卷带尺寸 Dimensions of Tape (Unit: mm)

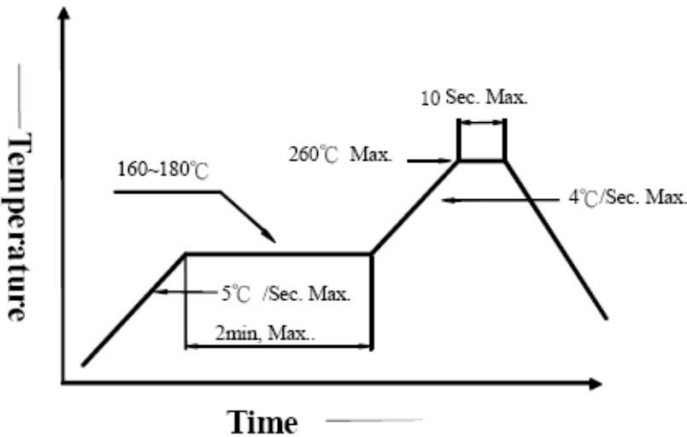


备注 NOTES:



1. 无材料部分同样用上封带密封
2. 材料负极方向与卷带齿孔方向一致
3. 3000pcs/卷

Empty component pockets are sealed with top cover tape;
The cathode is oriented towards the tape sprocket hole
3,000 pcs/ Reel.

回流焊规范 [Reflow Profile]
无铅产品回流焊温度条件曲线规范 Pb-free Solder temperature Profile



- Note:
- 1) 焊接时请不要重压 LED 灯。
Do not put stress on the LEDs when soldering.]
 - 2) 焊接后温度未回降到常温时请勿扭曲线路板。
Do not warp the circuit board before it have been returned to normal ambient conditions after soldering.
 - 3) 手工焊接规范 [Hand Soldering Profile]
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.

	
Caution: Normal Handle Picture 1	Caution: Please do not handle LED like Picture 2

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 7 天内使用完。
After opening the package, the LEDs should be kept at 30℃/40%RH or less, and it should be used within 7 days
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