

承 认 书

客户名称 : _____
物料编码 : _____
产品型号 : JK-3528白光
版本编号 : 1.20
日 期 : 2023-07-26

产品描述:

- 贴片3528白光6000-7000K
- 胶体颜色:黄色



承 认 签 章		
编制	审核	核准

客 户 确 认		
确认	审核	核准

Features 特点

1. Package: 3.5*2.8*1.8/mm (外型尺寸)
2. Emitted Color: White (发光颜色: 白色)
3. Soldering methods: All SMT assembly methods (焊接方法: 所有的 SMT 焊接方法)
4. Comply ROHS standard (符合 ROHS 标准)
5. Moisture sensitivity level: Level 4 (防潮等级: Level 4)
6. Available on tape and reel (适用于载带及卷轴)

Applications

Backlighting

Optical indicators

Indoor and outdoor displays

Interior automotive lighting

Signal and symbol luminaire

Substitution of micro incandescent lamps

应用

背光

光学指示

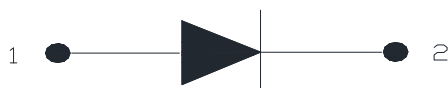
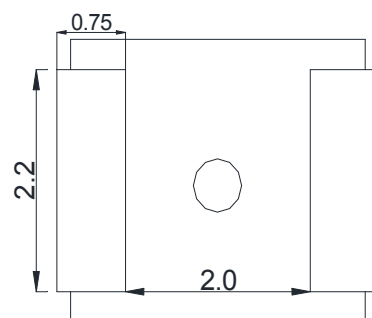
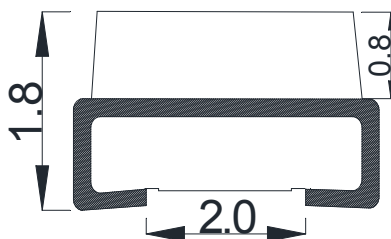
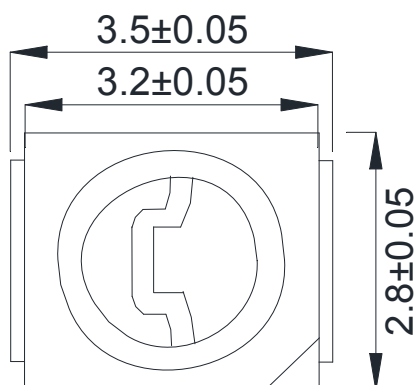
室内室外显示屏

汽车内部照明

信号照明

替代微型白炽灯

■ 外型尺寸图 Package Outline Dimensions



■ 焊盘设计 PAD Lay Out PCB

NOTES:

单位: 毫米 (英寸)

All dimensions are in millimeters (inches);

2、未标公差处公差为: $\pm 0.2\text{mm}$ (0.008 寸)

Tolerances are $\pm 0.2\text{mm}$ (0.008inch) unless Otherwise noted.

■ Absolute Maximum Ratings (绝对最大额定值) Ta = 25°C

Parameter (参数)	Symbol (符号)	Rating (等级)	Unit (单位)
Power Dissipation 功率	Pd	100	mW
Forward Current 正向电流	I _F	20	mA
Reverse Voltage 反向电压	V _R	5	V
Soldering Temperature 焊接温度	Tsol	260 (for 5 seconds)	°C
Operating Temperature 工作温度	Topr	-40°C~85°C	°C
Storage Temperature 存储温度	Tstg	-40°C~85°C	°C
Electrostatic discharge 静电放电	ESD	2000	V

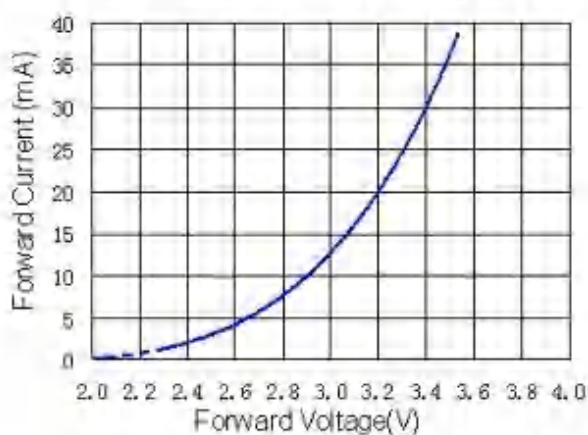
■ Electro-Optical Characteristics (光电特性) (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage 正向电压	V _f	2.8	----	3.2	V	I _F =20mA
Luminous Flux 光通量	Φ	6	---	9	LM	
Color Temperature 色温度	T _c	6000	---	7000	K	
Color Rendering Index 显色指数	Ra	---	----	---		
Viewing Angle 角度	2θ _{1/2}	----	120	----	Deg	
Reverse Current 反向电流	I _R	----	----	10	μA	VR=5V

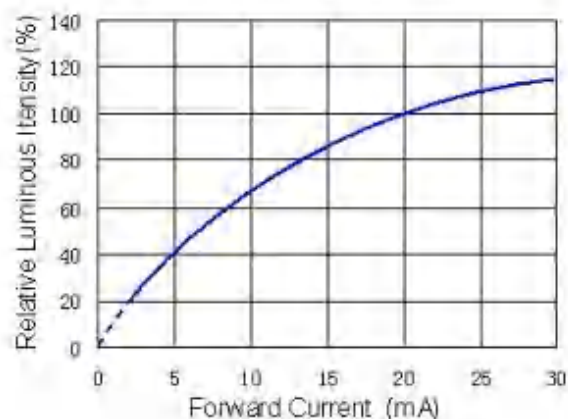
Typical Electro-Optical Characteristics Curves: (光电特性曲线)

(Environment Parameter: Temperature=25°C, Humidity=45%)

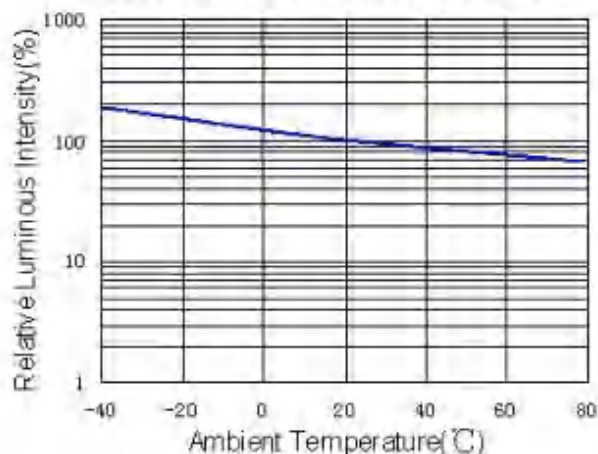
Forward Current VS Forward Volatage



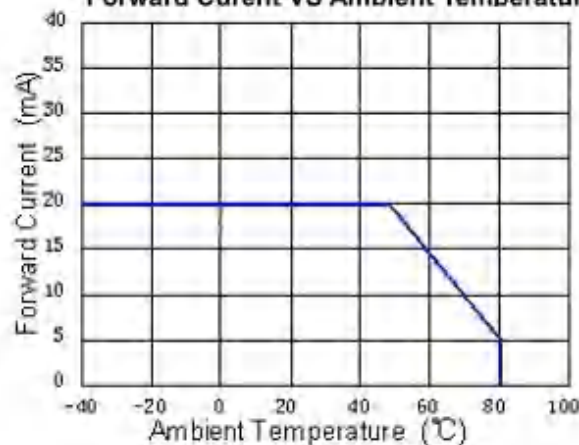
Relative Flux VS Forward Current



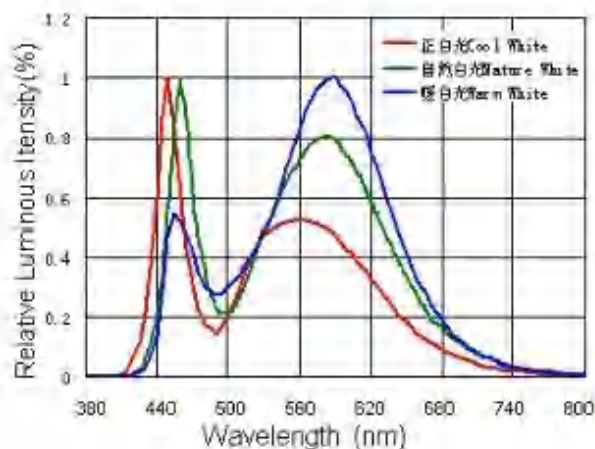
Relative Flux VS Ambient Temperature



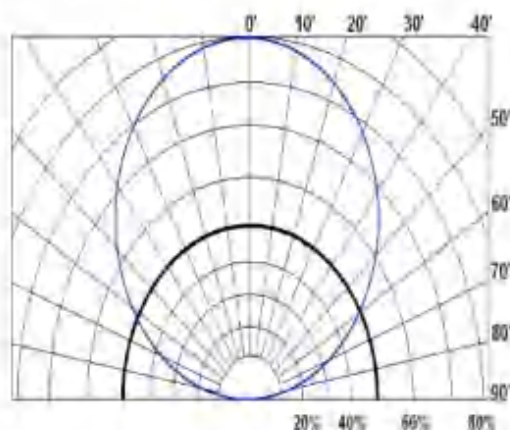
Forward Curent VS Ambient Temperature



Relative Spectral Distribution



Typical Spectral Distribution



Reliability test items and conditions (可靠性实验) :

The reliability of products shall be satisfied with items listed below.

Confidence level: 97%

LTPD: 3%

No.	Test Item (试验项目)	Test Conditions (测试条件)	Sample size (试样量)	Ac/Re 允收/拒收
1	OperationLife (操作寿命)	Test If=DC20mA Temp: Room temperature Test time=1000hrs	50	0/1
2	High Temperature HighHumidity (高温高湿)	Temp. =+85℃ RH=85%HR Test time=1000hrs	50	0/1
3	ThermalShock (冷热冲击)	-35℃ ~ +85℃ 20min 10 20min Test Time=300cycles	50	0/1
4	High Temperature Storage (高温储存)	High Temp =+85℃ Test time=1000hrs	50	0/1
5	Low Temperature Storage (低温储存)	Low Temp= -40℃ Test time=1000hrs	50	0/1
6	Temperature Cycle 温度循环	-35℃ ~ +100℃ 15min 5min 15min Test Time=300cycle	50	0/1
7	ReflowSolderin (回流焊)	Operation heating: 260℃(Max.), within 10seconds.	50	0/1

Precautions for use (使用注意事项) :

- Customer must apply the current limiting resistor in the circuit so as to drive the LEDs within the rated current. Otherwise slight voltage shift maybe will cause big current change and burn out will happen.
- Also, caution should be taken not to overload the LEDs with instantaneous high voltage at the turning ON and OFF of the circuit.
- Storage:
 - Don't open the moisture proof bag before ready to use the LEDs.
 - 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.
 - After opening the package, the LEDs should be kept at 30℃/35%RH or less, and it should be used within 7 days.
 - If the LEDs be kept over the conditions of 3.4, baking is required before mounting. Baking condition as Below: 60±5℃ for 12 hrs. 70±5℃ for 12 hrs.
- Soldering condition:
 - Manual of soldering:

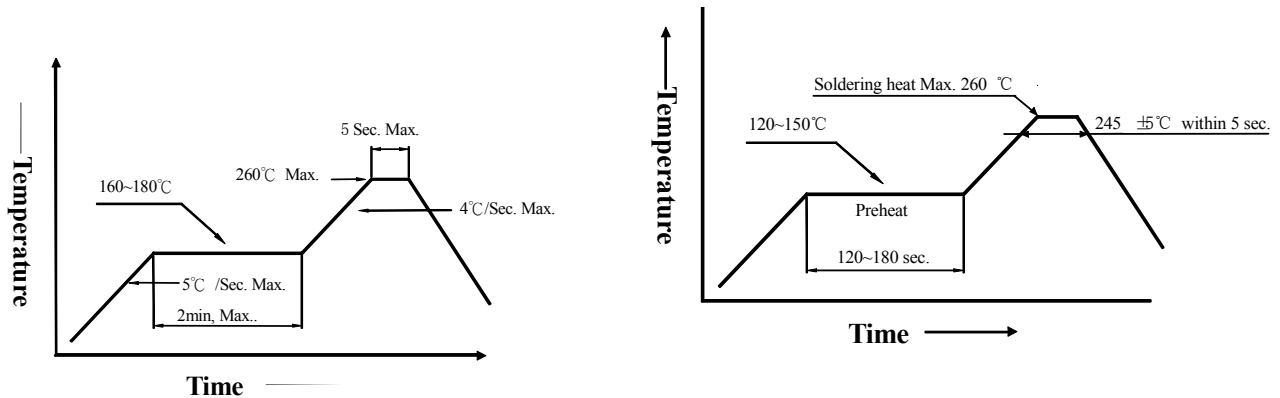
The temp. of the iron should be lower than 280 °C and soldering within 3sec per solder-pad is to be observed.

4.2 Pb-free solder temp. -time profile.

4.3 DIP soldering (Wave Soldering) temp. -time profile:

Note: a) Reflow soldering should not be done more than two times.

conditions after soldering. 焊接后的条件。



Loaded quantity: 2000-8000 pcs/reel 装载数量: 2000-8000 件/卷筒

