







### 特性 (Feature)

尺寸 (Dimension) 52mm \* 42mm \* 4.3mm

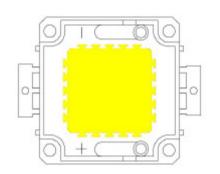
节 能(Energy saving)

寿命长(Long life)

响应速度快(The second level response speed)

环 保(Environmental protection)

手工焊接 (Manual Soldering)



### 应用 (Applications)

普通照明 General Lighting

广告灯 Advertisement lighting

建筑照明 Architectural Lighting

路 灯 Street Lighting



#### ATTENTION注意

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

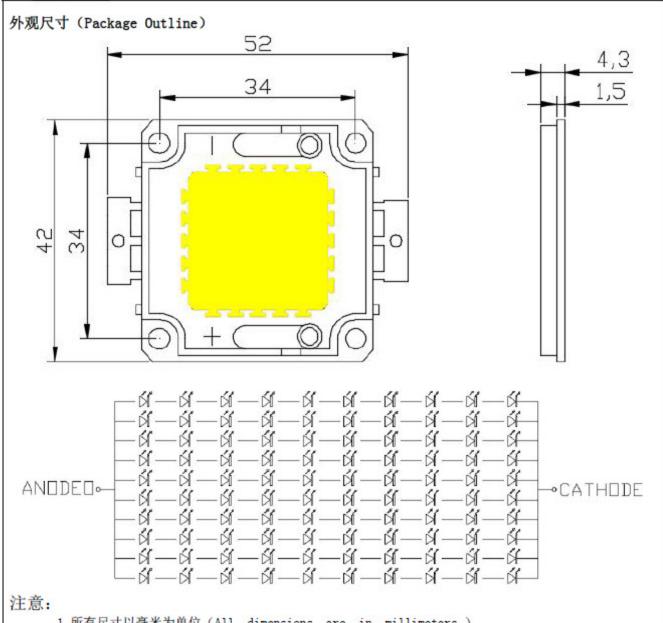
请勿裸手接触器件











- 1. 所有尺寸以毫米为单位 (All dimensions are in millimeters.)
- 2.公差为: 0.25 (Tolerance is 0.25 unless otherwise noted.)
- 3. 在安装过程中一定要做好防静电措施。











## 光电参数(Electro-Optical Characteristics Ta=25℃)

| 参数                       | 符号     | 条件             | 显指  | 最小值  | 平均值 | 最大值 | 单位    |
|--------------------------|--------|----------------|-----|------|-----|-----|-------|
| Parameter                | Symbol | Condition      | CRI | Min  | Avg | Max | Units |
| 正向电压<br>Voltage          | VF     | IF=3000mA      | /   | 30   | 105 | 34  | v     |
| 光通量                      | Φ      | CCT:6000-6500  | 80  |      |     |     |       |
| 九姐童<br>Luminous flux     |        | CCT: 4000-4500 | 80  |      |     |     |       |
|                          |        | CCT:3000-3200  | 80  |      |     |     |       |
| 反向漏电流<br>Reverse Current | 3      | VR=50V         | (2) | 1121 | 02  | 5   | uA    |

### 极限参数(Absolute Maximum Rating At Ta=25℃)

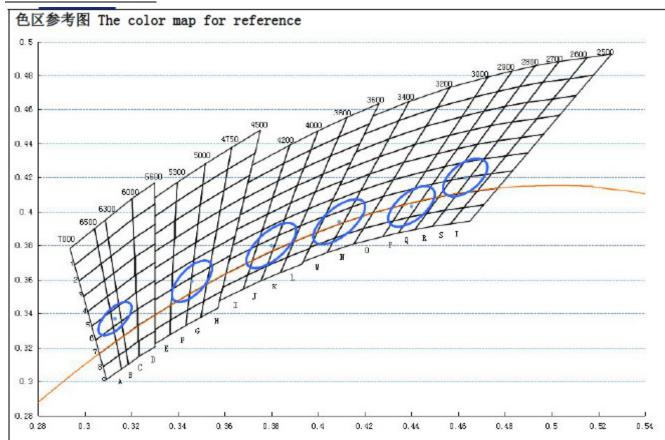
| 参数  | 符号     | 数值            | 单位    |  |
|---|--------|---------------|-------|--|
| parameter                                 | Symbol | Value         | Units |  |
| 反向电压<br>Reverse voltage                   | VR     | 50            | V     |  |
| 正向电流<br>Continuous Forward<br>Current     | IF     | 3000          | mA    |  |
| 储存温度<br>Storage Temperature<br>Range      | TSTG   | -30 TO +60    | Ċ     |  |
| 工作温度<br>Operating Temperature<br>Range    | TOPR   | -30 TO +85    | C     |  |
| 手工焊接温度<br>Manual Soldering<br>Temperature | TSLD   | 350℃ for 3sec | ď     |  |
| 功耗<br>Power Dissipation                   | PD     | 100           | ¥     |  |
| 峰值正向电流<br>Pulsed Forward Current          | IFP    | 3000          | mA    |  |
| 静电承受极限 ESD<br>Sensitivity                 | ESD    | 2000          | V     |  |











| 中心色温<br>CCT | 2700K | 3000K  | 3500K  | 4000K | 5000K  | 6500K  |
|-------------|-------|--------|--------|-------|--------|--------|
| X           | 0.463 | 0.44   | 0. 409 | 0.38  | 0. 346 | 0. 313 |
| Y           | 0.42  | 0. 403 | 0. 394 | 0.38  | 0. 359 | 0. 337 |

### 备注/Postscript:

正向电压允许误差± 3%. Tolerance of measurement of Vf is ±3%...

光通量允许误差±5%. Luminous Intensity Measurement allowance is ±5%

色温误差范围±100k. Colour Temperature Measurement allowance is ±100k

显色指数允许误差±1. Color Rendering Index Measurement allowance is ±1

参数仅为灯珠测试数据,应用于成品后会有变化.Parameter is base on tesbing light source only, after finished on assembly will be changed







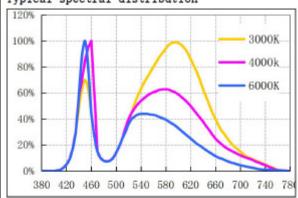


# 10<u>0W-FL COB CW</u>

### 典型特性曲线/Typical Characteristic Curves

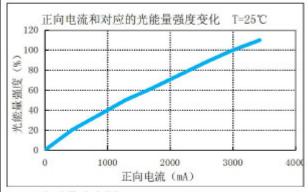
### (1).典型光谱分布

### Typical spectral distribution

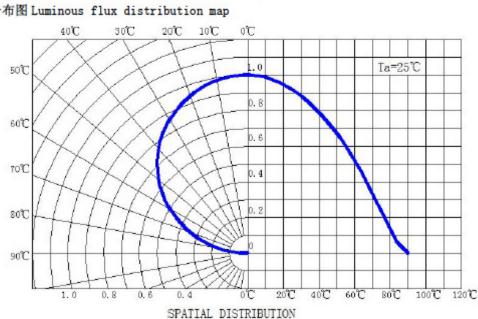


### (3).正向电流与相对光通量曲线图

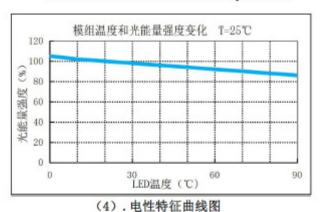
#### Forward Current & Relative Luminous Flux Curve



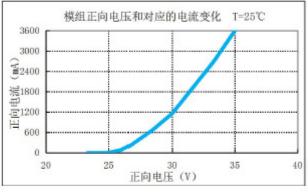
#### (5) 光通量分布图 Luminous flux distribution map



### (2).输出光通量与温度曲线 Relative Luminous Flux & Temperature



Electrical Characteristics Curve











### 可靠性测试 Reliability test

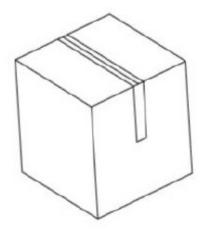
| 项目<br>Test Items                                      | 测试条件<br>Test Condition                          | 时间<br>Time  | 数量<br>Quantity | 接收/拒<br>收<br>Ac/Re |
|---|---|-------------|----------------|--------------------|
| 常温通电<br>Life Test                                     | Ta=25°C±5°С<br>IF=3000mA                        | 1000Hrs.    | 22Pcs.         | 0/1                |
| 温度循环<br>Temperature Cycle                             | 100°C±5°C 30 min.  ↑ ↓ 5 min  -40°C±5°C 30 min. | 100 Cycles. | 22Pcs.         | 0/1                |
| 高温操作<br>High Temperature Operation                    | Temp:85°C±5°C<br>IF=3000mA                      | 1000Hrs.    | 22Pcs.         | 0/1                |
| 低温操作<br>Low Temperature Operation                     | Temp:-40°C±5°C<br>IF=3000mA                     | 1000Hrs.    | 22Pcs.         | 0/1                |
| 高温高湿通电<br>High Temperature<br>High Humidity Life Test | 85°C±5°C/<br>85%RH<br>IF=3000mA                 | 1000Hrs.    | 22Pcs.         | 0/1                |

### 包装规格 Packing Specifications

产品按照规定方向放置在吸塑盒凹槽里面,上面盖上透明的塑料防护盖子,避免产品胶面受到外力挤压; 每盘吸塑盒放置的标准数量根据支架规格区分为 5-15PCS 不等,如图所示,包装好的材料放置在纸箱中用透 明胶带封好。The product is placed in the groove of the plastic box according to the specified direction, and the transparent plastic cover cover is covered to avoid the extrusion of the adhesive surface of the product. The standard quantity of each suction box is divided into 5-15PCS according to the specifications of the bracket. As shown in the picture, the packed material is placed in the carton with transparent adhesive tape.















### 产品注意事项: Notice of product

#### 产品运输 Product transportation

适用范围: 所有产品:

Scope of application: all products;

LED 产品在运输过程中,需保持正面朝上,防潮防水,运输过程中避免挤压、碰撞和剧烈震动。

LED products should be kept upside down, moisture-proof and waterproof during transportation and avoid extrusion, collision and severe vibration during transportation.

#### 产品储存及期限 Product storage and time limit

室温密封存储: 20℃~40℃, 40%~60%RH;

Sealed storage at room temperature: 20 ~ 40 C, 40% ~ 60%RH;

防潮密封存储: 20℃~30℃, 25~60%RH;

Moisture proof sealed storage: 20 ~ 30 C, 25 ~ 60%RH;

产品拆包开封后,建议24小时内使用完成,环境条件温度<30℃,湿度<60%)。

After the product is unpacked, it is recommended that it be completed within 24 hours (ambient temperature <30, <60%).

#### 除湿处理 Dehumidification treatment

LED 产品超出以上规定期限,或者由于其他原因受潮,建议客户做除湿处理后再使用。

LED products exceed the prescribed time limit, or because of other reasons, it is recommended that customers do dehumidification treatment before use.

除湿方法: 70°C/22±2小时。

Dehumidification method: 70 /22 + 2 hours.

#### 驱动电源配置 Drive power supply configuration

LED 产品在使用前,需根据使用 LED 光源产品额定电流电压合理配置恒流恒压驱动电源。建议使用驱动电源空载电压不高于 LED 光源负载电压 1.2 倍。Before using the LED products, the constant current and constant voltage drive power shall be reasonably configured according to the rated current and voltage of the LED light source. Suggested use of drive

The no load voltage of the power supply is not higher than that of the LED light source, and the load voltage is 1.2 times.









### 结温极限及散热处理 Junction temperature limit and heat dissipation treatment

LED 产品在使用过程中,请保证必要的散热设计(负极焊点温度≤85℃),且 LED 散热面需均匀涂抹散热 硅脂,并紧密贴合散热器件,如散热不足,LED 内部结温超过125℃,将降低光效及影响 LED 的使用寿命。

During the use of LED products, please ensure the necessary heat dissipation design (Negative Solder Joint Temperature < 85 °C), and LED heat sink should be evenly smeared.

Silicone grease and tightly fit heat dissipating devices, such as insufficient heat dissipation, LED internal junction temperature exceeding 125 degrees, will reduce the light efficiency and affect the life of LED.

#### 静电防护 Electrostatic protection

LED 是静电敏感器件,虽然 LED 产品具有优异的抗静电能力,但每经历一次静电释放产生的冲击,都会对 LED 造成一定程度的损坏。因而在使用 LED 产品过程中需要做好静电防护措施,例如佩戴防静电手套及防静电手环。

LED is an electrostatic sensitive device. Although the LED product has excellent antistatic ability, every time it experiences an impact caused by electrostatic discharge, it has all the effects.

It will cause a certain degree of damage to LED. Therefore, electrostatic protection measures are needed in the process of using LED products.

For example, wear anti - static gloves and anti - static ring.

#### 手动焊接操作指引 Manual welding operation guidance

建议焊接时电烙铁在支架引脚上停留时间不超过 5 秒,如需要反复焊接时,间隔停留时间不少于 2 秒, 避免长时间高温对 LED 造成损伤。 焊接过程中,请勿触摸或挤压 LED 的功能区表面,避免对 LED 内部 造成损伤,同时请注意避免电烙铁对 LED 表面胶体的烫伤及其它损伤。

It is recommended that the solder iron stay on the support pin when welding is less than 5 seconds, and if the welding is repeated, the interval residence time is not less than 2 seconds.

Avoid long time high temperature damage to LED. During welding, do not touch or squeeze the surface of the functional area of LED to avoid internal LED.

It is also important to avoid the scalding and other injuries caused by electric iron on the surface of LED.

### 其它 Other

使用的 LED 矩阵驱动器,要确保反向电压不会超过最大额定值,LED 的光输出强度足以让人的眼产生不适,必须采取预防措施,以保障直视 LED 不超过几秒钟。发现产品缺陷后,用户应告知我们,不得自行对 LED 解剖和分析等的反向工艺。

The LED matrix driver is used to ensure that the reverse voltage does not exceed the maximum rated value. The intensity of the LED output is enough to cause eye problems.

Appropriate precautions must be taken to ensure that direct LED is not more than a few seconds. After finding the product defect, the user should inform us that we should not do it ourselves. LED anatomy and analysis and other reverse processes.