

承认书

Specification for approval

客户名称：

Customer

产品型号：GP-50WB1-P45-Z3GL

Product Part No.

制定人：



日期：

Issued By

Date

审核：



日期：

Approved By

Date

客户回签：

日期：

Custer Confirmation

Date

SHENZHEN GUANGMAI ELECTRONICE CO., LTD.

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Features:

- More energy efficient than incandescent and most halogen lamps
- low voltage operation
- Instant light
- Long operating life
- Anti UV

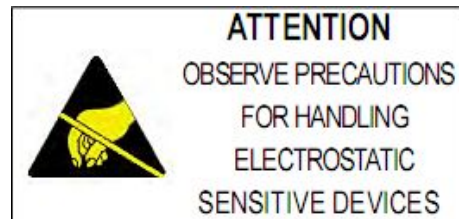


Applications:

- Indoor lighting:
spot light, ceiling light, bulb.....
- Architectural and landscape lighting:
down light, wall lamp, garden light
- Roadway lighting:
Street light, garden light, tunnel light
- Display lighting:

产品特征:

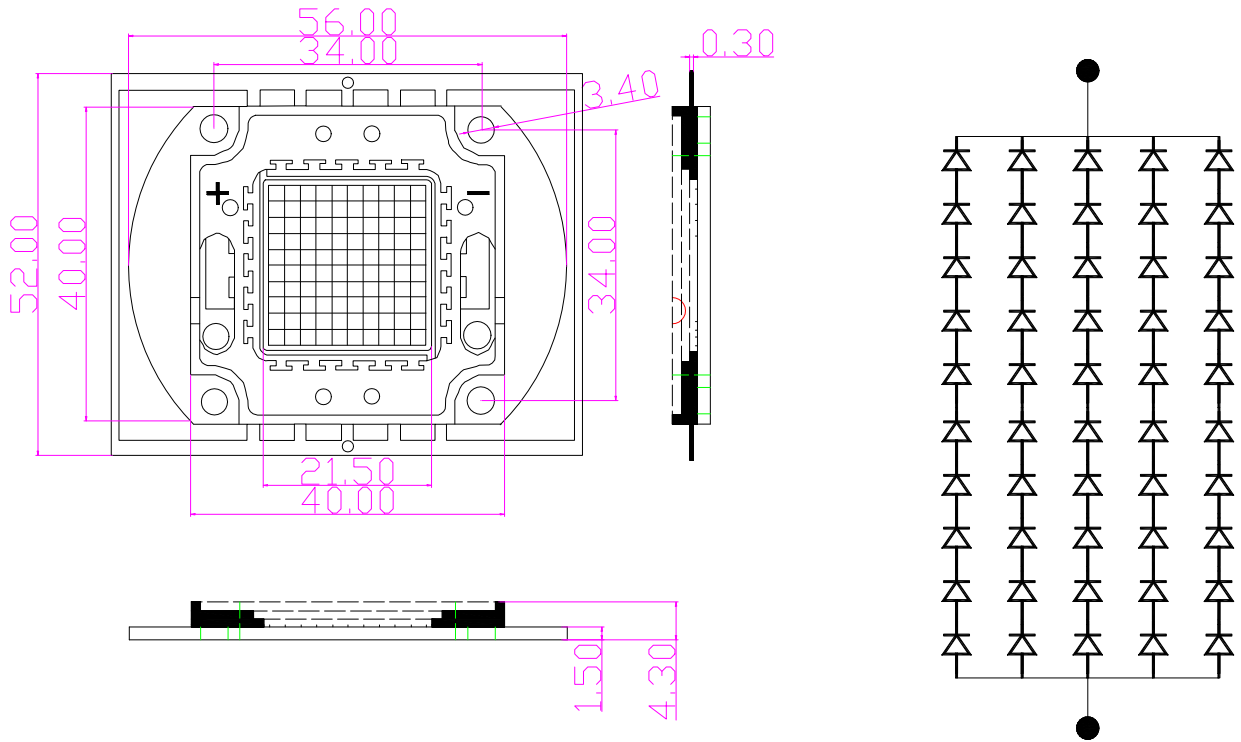
- 较传统灯的高能效
- 低电压工作
- 瞬间点亮
- 超长工作时间
- 防紫外



产品应用:

- 室内照明: 射灯,
天花灯, 球泡灯等
- 建筑及景照明:
投光灯, 洗墙灯, 园林灯
- 道路照明:
路灯, 庭院灯, 隧道灯
- 展示照明

■ Package Dimensions 封装外形尺寸



Notes: All dimensions in mm tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.
除非另有说明，以上尺寸以 mm 为单位，公差在 $\pm 0.1\text{mm}$ 。

■ Absolute Maximum Ratings 极限参数 (Ta=25°C)

| Parameter | Symbol | Rating | Unit |
|-------------------------------------|------------------|-----------|------|
| DC Forward Current 正向电流 | I _F | 3500 | mA |
| Peak pulse Current* 脉冲电流 | I _{FP} | 3500 | mA |
| Reverse Voltage 反向电压 | V _R | 50 | V |
| Power Dissipation 功率 | P _D | 80 | W |
| Operating Temperature Range 工作温度 | T _{OPR} | -30 ~ +75 | °C |
| Storage Temperature Range 储存温度 | T _{STG} | -40 ~ +85 | °C |
| LED Junction Temperature 结点温度 | T _J | 125 | °C |

Notes: 1. 1/10 Duty Cycle 0.1ms Pulse Width. (脉冲宽度 0.1ms, 占空比 1/10)

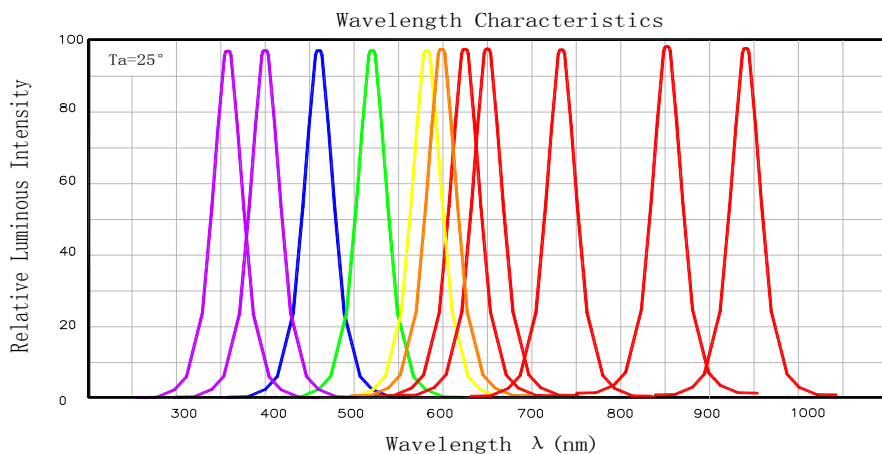
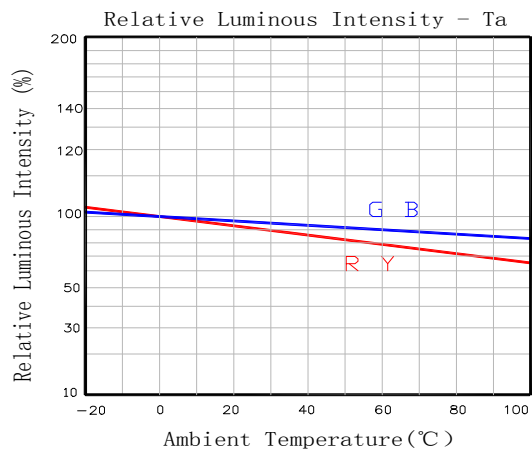
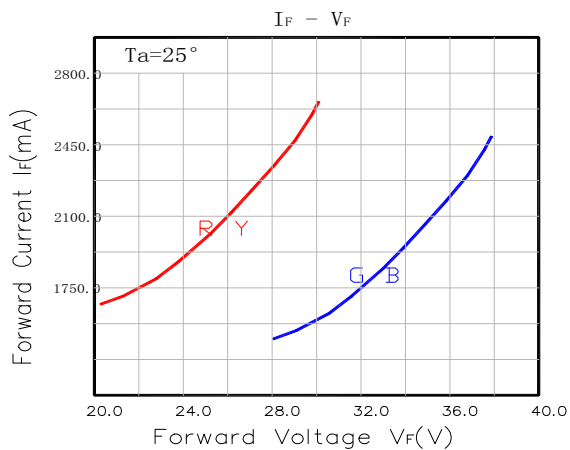
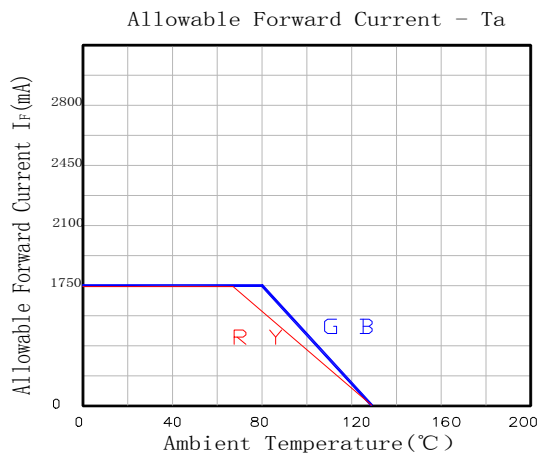
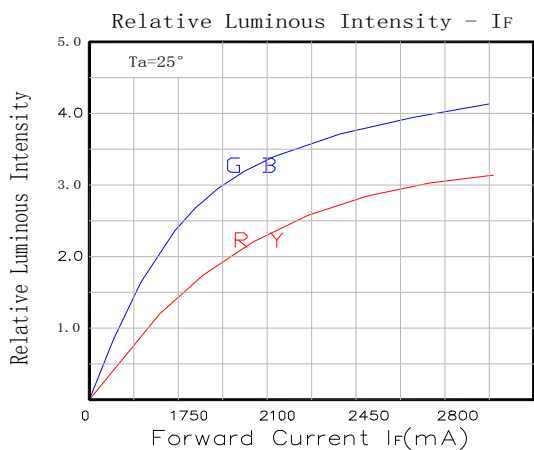
■ Electrical/Optical Characteristics--White (At TA=25°C) 光电特性参数

| Parameter | Symbol | Conditions | Min | Avg. | Max | Units |
|------------------------------------------------------------|---------------------|------------------------|-------|------|-------|-------|
| Forward Voltage 正向压降 | V _F | I _F =1750mA | 30.00 | -- | 34.00 | V |
| Thermal Resistance Junction To Board 热阻 | R _{ΘJ-B} | I _F =1750mA | -- | 8 | -- | °C/W |
| Luminous Flux 光通量 | Φ _v | I _F =1750mA | 300 | | 500 | lm |
| Dominant wavelength 主波长 | λ _p | I _F =1750mA | 450 | | 460 | nm |
| Temperature Coefficient of Forward Voltage 正向压降之温度系数 | ΔV _F /ΔT | I _F =1750mA | -- | -2 | -- | mV/°C |
| Reverse Current 反向漏电流 | I _R | V _R =50V | -- | -- | 10 | μA |
| Viewing Angle ^[1] | 2Θ _{1/2} | I _F =1750mA | -- | 120 | -- | Deg |

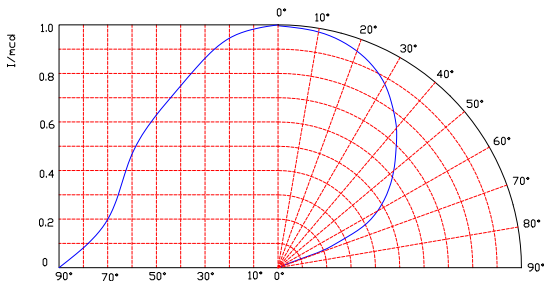
| | | | | | | | |
|------|--|--|--|--|--|--|--|
| 发光角度 | | | | | | | |
|------|--|--|--|--|--|--|--|

■ Typical Optical/Electrical Characteristics Curves 典型光电参数曲线

(Ta=25°C Unless Otherwise Noted)



■ Radiation Diagram 角度图



■ Reliability test standards 可靠性实验标准

| 类别 Type | 测试项目 Test Item | 参考标准 REF. Standard | 测试条件 Test condition | 持续时间 Duration | 取样数 Sample count | 允收数 Accept |
|---------------|----------------------------------------------|--------------------------|--------------------------------------------|-------------------------|---------------------|---------------|
| 环境 测试 | 温度循环 Temperature Cycle | JESD22-A104-A | -40℃~25℃~100℃~25℃ 30min,5min,30min,5min | 循环 100 次/ 100 cycles | 22 | 0/22 |
| | 冷热冲击 Thermal shock | JESD22-A106 | -40℃~100℃ 30min, 30min | 循环 100 次/ 100 cycles | 22 | 0/22 |
| | 高温储存 High Temperature Storage | JEITA ED-4701 200 201 | Ta=100℃ ± 5℃ | 1000 Hrs | 22 | 0/22 |
| | 低温储存 Low Temperature Storage | JEITA ED-4701 200 202 | Ta=-40℃ ± 5℃ | 1000 Hrs | 22 | 0/22 |
| | 高温 / 高湿储存 Humidity Heat Storage | JIS C 7021 (1977)B-11 | Ta=60℃ RH=85% | 1000Hrs | 22 | 0/22 |
| 寿命 试验 | 寿命测试 Life test | JESD22-A108-A | Ta=25℃ If=1750mA | 1000Hrs | 22 | 0/22 |
| | 高温/高湿寿命测试 High humidity Heat life test | JESD22-A101 | Ta=60℃ RH=85% If=1750mA | 1000Hrs | 22 | 0/22 |
| 破坏 性试 验 | 耐焊性 Resistance to soldering Heat | JESD22-A113 | IR soldering 245℃/10sec | 1 time | 22 | 0/22 |

Precautions for use

使用说明

1. Storage 储存

- (1) The best Storage environment: temperature :5°C~30°C , Humidity:40% -80%HR
最佳储存条件在 5°C~30°C, 40% -80%HR
- (2) LED store after six months to be re-spectral color separation, to prevent the LED optical properties change
储存六个月之后需重新分光分色后使用, 防止光电参数发生变化。

2. Production and application 生产应用

- (1) need wear gloves when contact with led to prevent oxidation
手接触灯珠时须戴手套
- (2) ESD protection to be good
生产过程中需做好防静电措施
- (3) soldering: the pc type can use soldering iron, (the best temperature is 300°C/3sec) also can use Temperature Platform (150 °C /30sec,max) the silicone type can use reflow soldering in addition to soldering iron and Temperature Platform
焊接: pc 型可以采用烙铁手工焊接, 条件为 300°C/3sec, 也可以采用低温锡膏加热平台焊接, 温度不超过 150°C/30sec, 硅胶封装的还可以采用回流焊接。
- (4) about Package-type silicone , It is recommended to bake before soldering when the pack is unsealed after 24h. The conditions are as following: 80°C 4-6h.
对于硅胶透镜产品需过回流焊的话, 产品开封 24h 内需使用完毕, 否则需 80°C 烘烤 4-6h 后再过回流焊。
- (5) must have a good heat sinking, the temperature of the heat sink must be below 65 degree
做好散热措施, 热沉温度须低于 65 度
- (6) When use please remove protective blue film 使用的时候请撕下保护蓝膜