

承认书

Specification for approval

客户名称：

Customer

产品型号：GP-50WR8-G42Z3

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 GANGMAI ELECTRONICE CO., LTD.

地址（Add）：宝安福永永福路与重庆路交叉口金港工业园 B 栋 4-5 楼

电话（Tel）：86-055-23499599

传真（Fax）：86-055-23497717

Features:

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

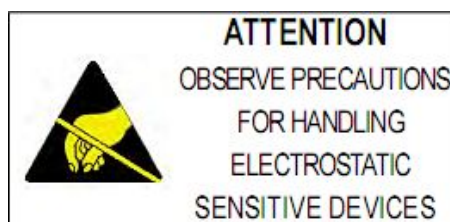


Applications:

- 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:

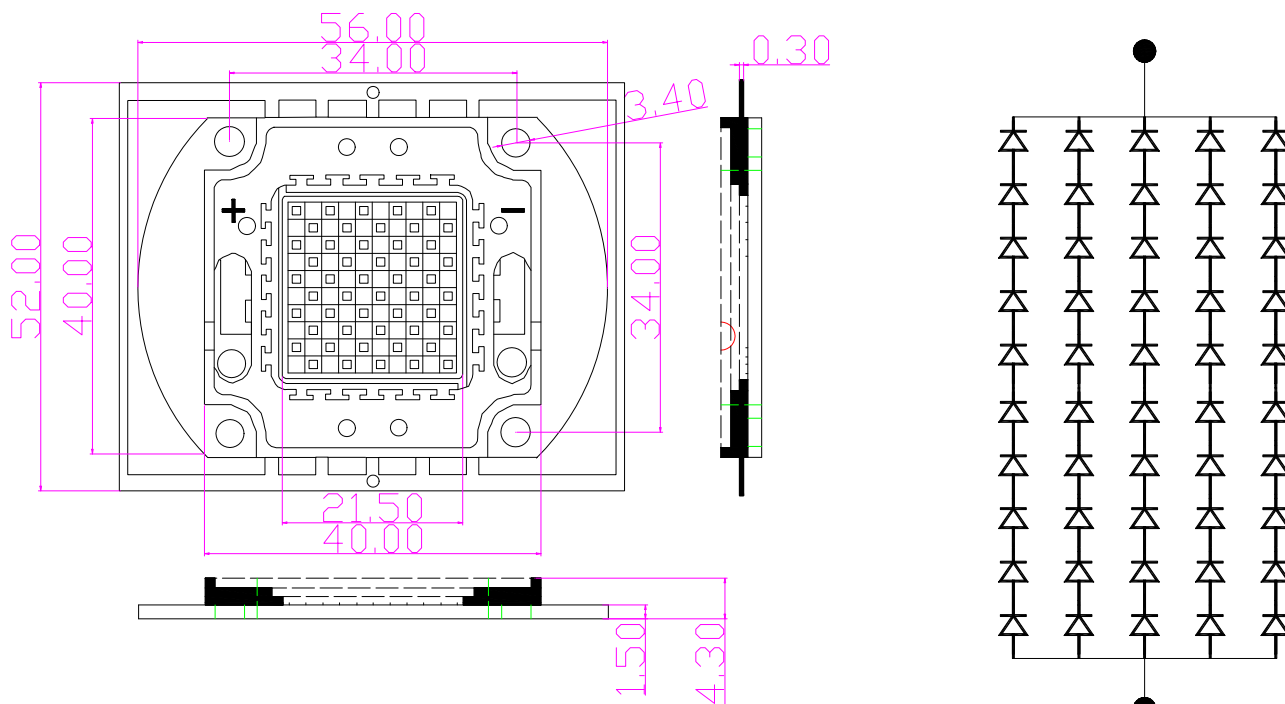
- 较传统灯的高能效
- 低电压工作
- 瞬间点亮
- 超长工作时间
- 防紫外



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℃)

Parameter	Symbol	Rating	Unit
DC Forward Current 正向电流	I _F	2500	m A
Peak pulse Current* 脉冲电流	I _{FP}	3000	m A
Reverse Voltage 反向电压	V _R	50	V
Power Dissipation 功率	P _D	50	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

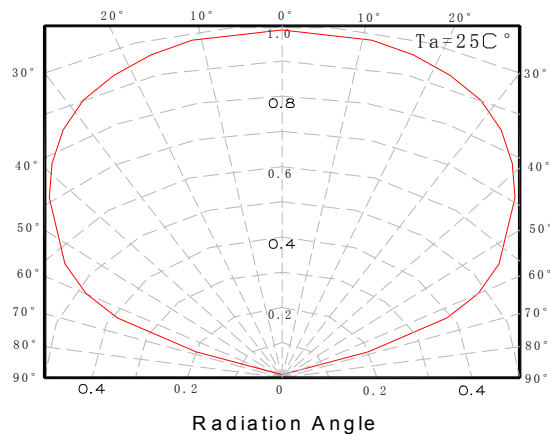
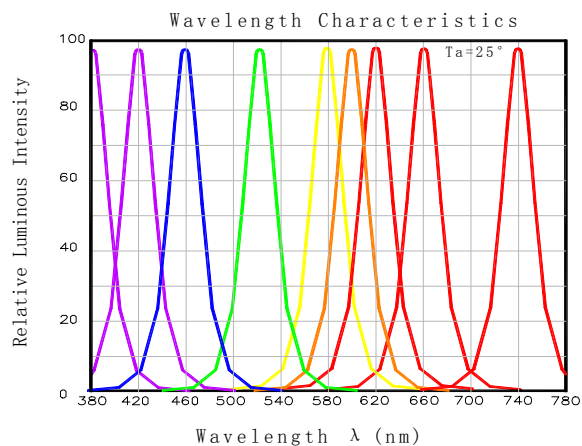
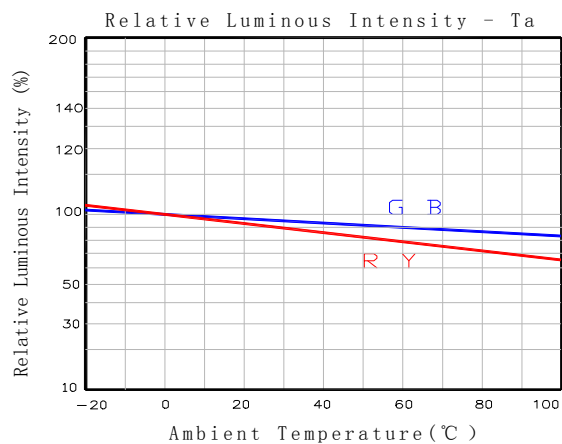
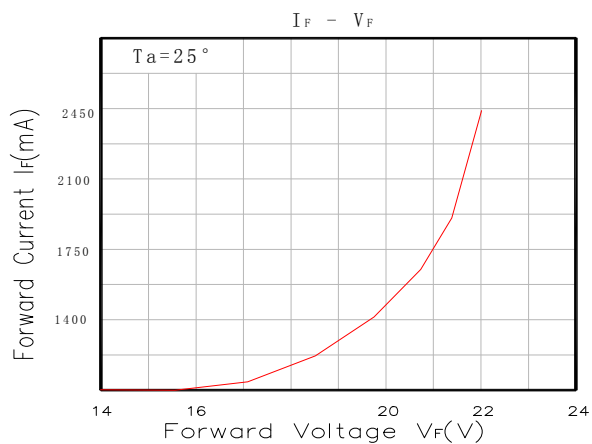
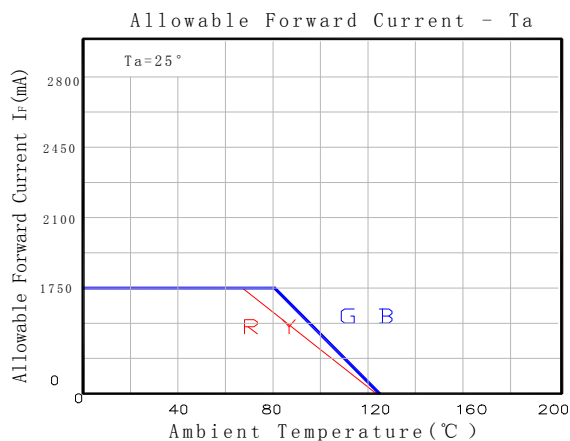
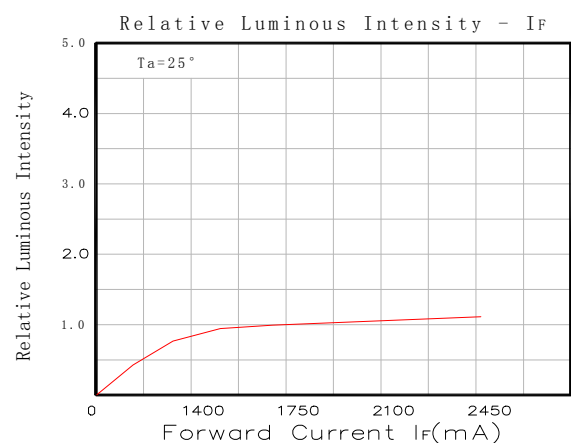
Notes: 1. 1/10 Duty Cycle 0.1ms Pulse Width. (脉冲宽度 0.1ms, 占空比 1/10)

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

Parameter	Symbol	Conditions	Min	Avg.	Max	Units
Forward Voltage 正向压降	V _F	I _F =1750mA	18.00	--	22.00	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				lm
Peak wavelength 峰值波长	λ _p	I _F =1750mA	840		850	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	μ A
Viewing Angle ^[1] 发光角度	2Θ _{1/2}	I _F =1750mA	--	120	--	Deg

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

($T_a=25^{\circ}\text{C}$ Unless Otherwise Noted)



■ 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