
承认书

Specification for approval

客户名称：

Customer

产品型号：GP-100WP1-G45T-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 ELECTRONIC 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): 86-0755-23499599

传真 (Fax): 86-0755-23497717

Features:

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

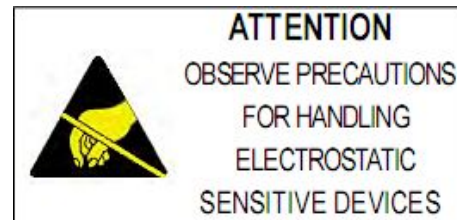


Applications:

- 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

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



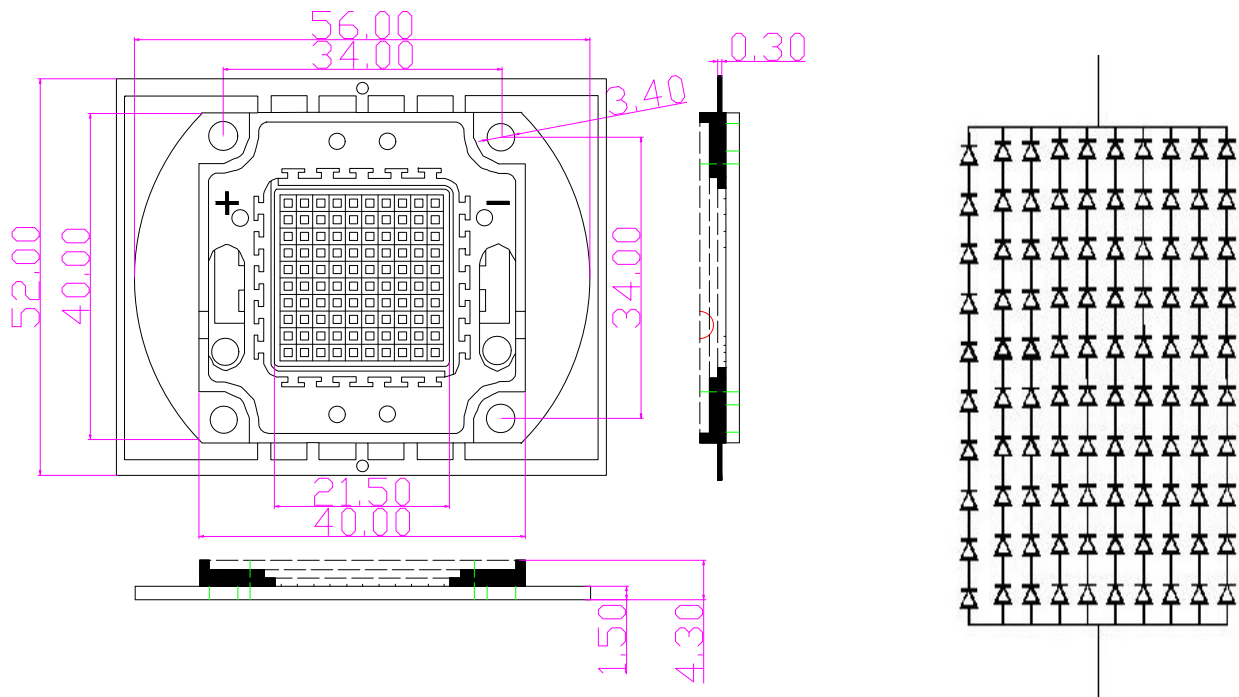
产品应用:

- 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

● Display lighting:

● 展示照明

■ Package Dimensions 封装外形尺寸



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

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

Parameter	Symbol	Rating	Unit
DC Forward Current 正向电流	I_F	5000	mA
Peak pulse Current* 脉冲电流	I_{FP}	7000	mA
Reverse Voltage 反向电压	V_R	50	V
Power Dissipation 功率	P_D	170	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

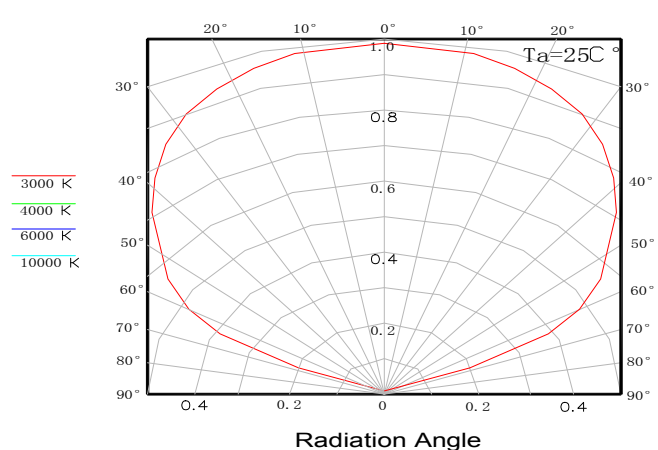
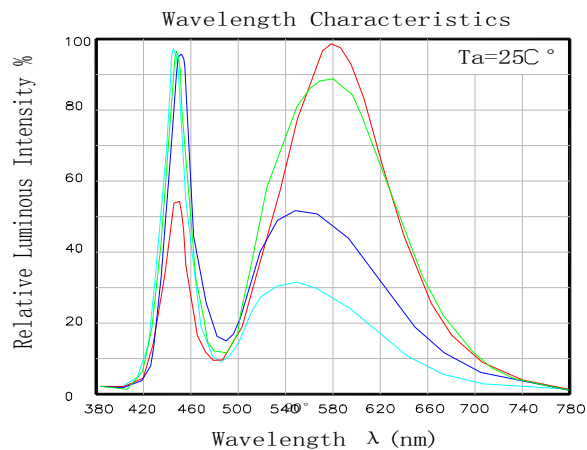
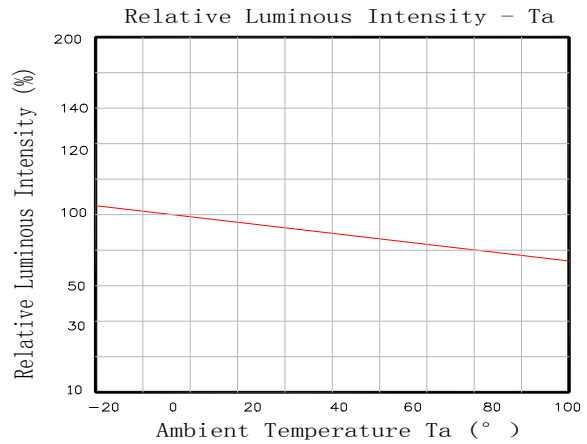
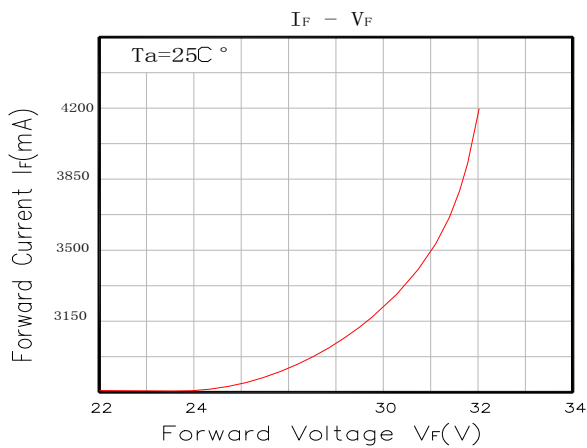
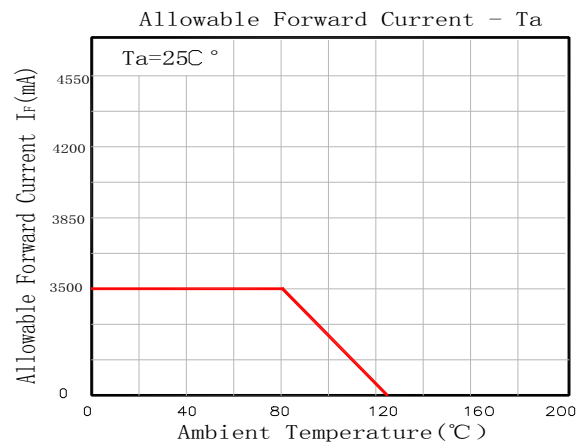
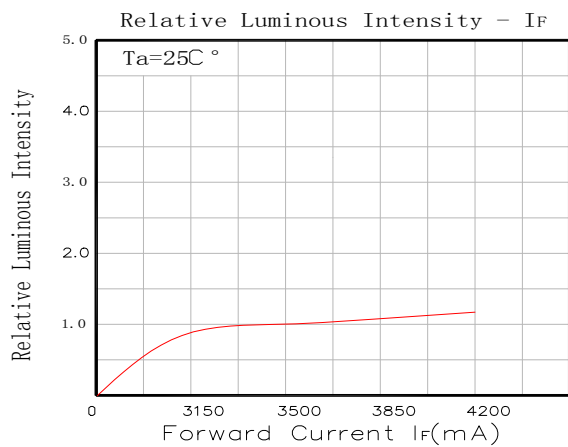
Notes: 1. 1/10 Duty Cycle 0.1ms Pulse Width. (脉冲宽度 0.1ms, 占空比 1/10)

■ 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	$I_F=3500\text{mA}$	30.00	--	34.00	V
Thermal Resistance Junction To Board 热阻	$R_{\theta J-B}$	$I_F=3500\text{mA}$	--	8	--	°C/W
Luminous Flux 光通量	Φ_v	$I_F=3500\text{mA}$	--	--	--	lm
WLP 峰值波长	λ_p	$I_F=1750\text{mA}$	365	--	370	nm
Temperature Coefficient of Forward Voltage 正向压降之温度系数	$\Delta V_F/\Delta T$	$I_F=3500\text{mA}$	--	-2	--	mV/°C
Reverse Current 反向漏电流	I_R	$V_R=50\text{V}$	--	--	10	μA
Viewing Angle ^[1] 发光角度	$2\theta_{1/2}$	$I_F=3500\text{mA}$	--	120	--	Deg

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

(Ta=25°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°C~25°C~100°C~25°C 30min,5min,30min,5min	循环 100 次/ 100 cycles	22	0/22
	冷热冲击 Thermal shock	JESD22-A106	-40°C~100°C 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°C ± 5°C	1000 Hrs	22	0/22
	低温储存 Low Temperature Storage	JEITA ED-4701 200 202	TA=-40°C ± 5°C	1000 Hrs	22	0/22
	高温 / 高湿储存 Humidity Heat Storage	JIS C 7021 (1977)B-11	Ta=60°C RH=85%	1000Hrs	22	0/22
寿命 试验	寿命测试 Life test	JESD22-A108-A	Ta=25°C If=3500mA	1000Hrs	22	0/22
	高温/高湿寿命测试 High humidity Heat life test	JESD22-A101	Ta=60°C RH=85% IF=3500mA	1000Hrs	22	0/22
破坏 性试 验	耐焊性 Resistance to soldering Heat	JESD22-A113	IR soldering 245°C/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