

承 认 书

Specification for approval

客 户 名 称 :

Customer

产 品 型 号 : GC-3WW6-0305-X1

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.

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

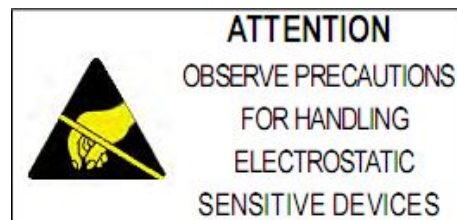


Applications:

- 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



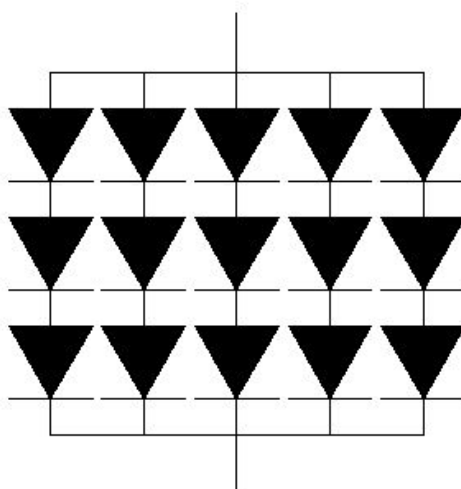
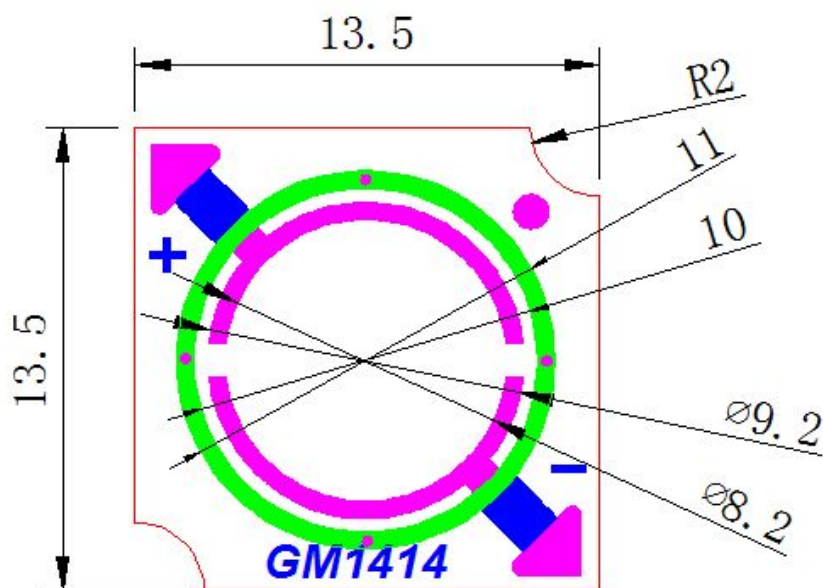
产品应用:

- 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 $\pm 0.1\text{mm}$ 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	450	mA
Peak pulse Current* 脉冲电流	I_{FP}	600	mA
Reverse Voltage 反向电压	V_R	15	V
Power Dissipation 功率	P_D	5	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

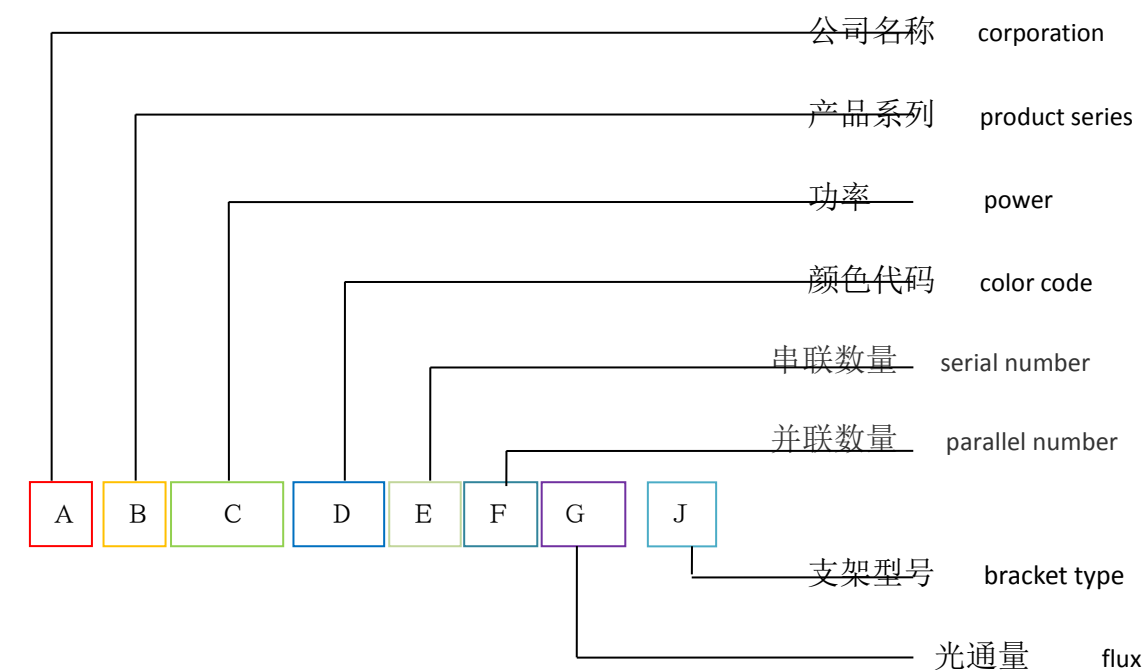
Notes: 1. 1/10 Duty Cycle 0.1ms Pulse Width. (脉冲宽度 0.1ms, 占空比 1/10)

■ 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	$I_F=300\text{mA}$	9.00	--	10.00	V
Thermal Resistance Junction To Board 热阻	$R_{\theta J-B}$	$I_F=300\text{mA}$	--	2	--	°C/W
Luminous Flux 光通量	Φ_v	$I_F=300\text{mA}$	300		350	lm
Color Temperature 色温	CCT	$I_F=300\text{mA}$	6000		6500	K
CRI 显色指数	Ra	$I_F=300\text{mA}$	80	--	--	--
Temperature Coefficient of Forward Voltage 正向压降之温度系数	$\Delta V_F/\Delta T$	$I_F=300\text{mA}$	--	-2	--	mV/°C

Reverse Current 反向漏电流	I_R	$V_R=150V$	--	--	10	μA
Viewing Angle ^[1] 发光角度	$2\Theta_{1/2}$	$I_F=300mA$	--	120	--	Deg

part No. Description 产品型号说明



- 1、 A : G 代表光脉 GM
- 2、 B : P 代表大功率 high power
- 3、 C : 功率编码 power code

编码 code	功率 power
5	5 W
7	7 W
9	9 W
.....	
20	20 W

.....	
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4. D : 颜色编码 color code

编码	串联数量
01	5000k 以下色温 CCT<5000K
02	5000k 以上色温 CCT>5000k
03	3
.....	
10	10
11	11
.....	

5. E : 串联
number

数量 serial

6. F : 并联
number

编码	并联数量
01	1
02	2
03	3
.....	
10	10
11	11

数量 parallel

.....	
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编码	光通量
01	1*100
02	2*100
03	3*100
.....	
10	10*100
20	20*100
30	20*100
.....	

7、G : 光

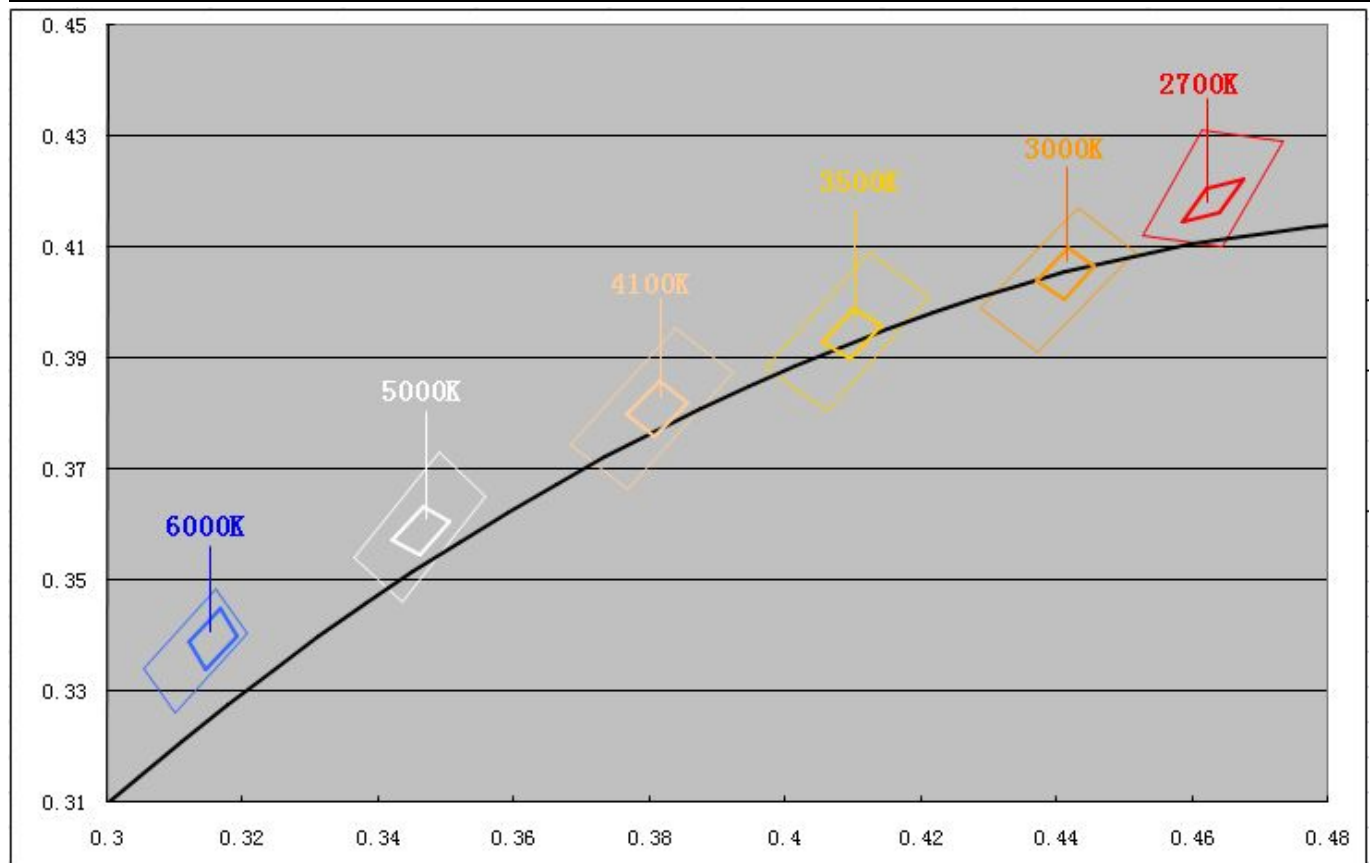
编码	支架型号
P1	仿普瑞六角
P2	仿夏普 8-12

通量 flux

10、J : 支架型号 bracket type

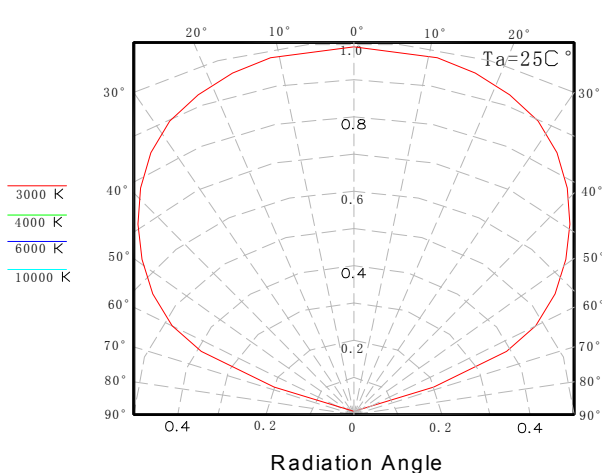
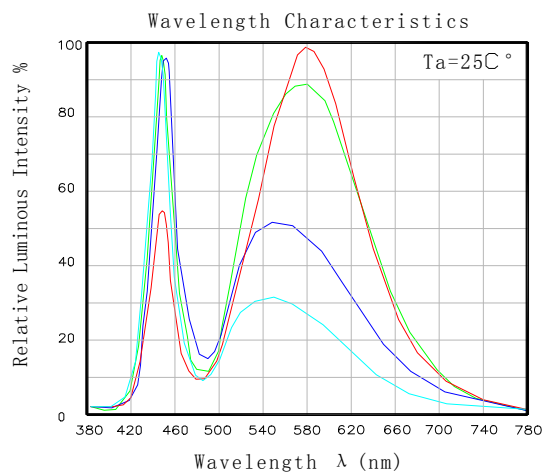
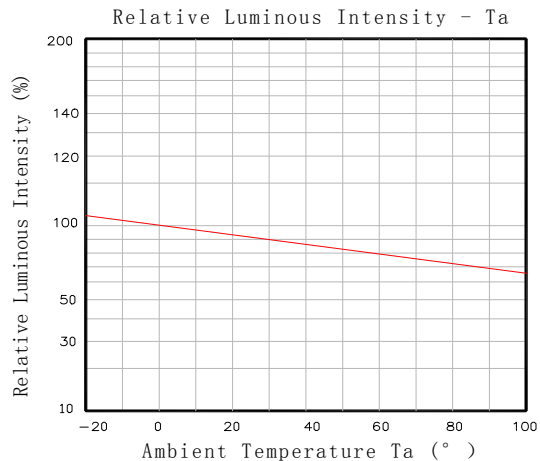
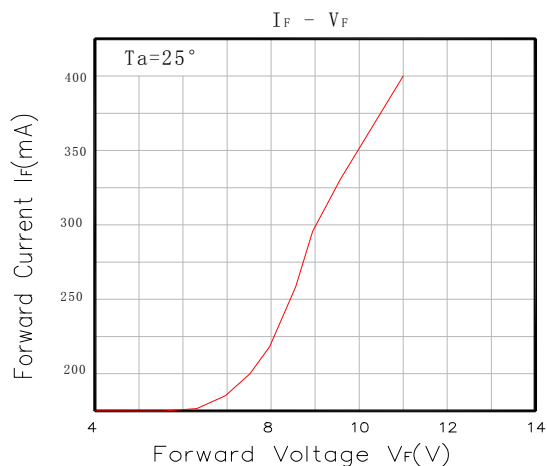
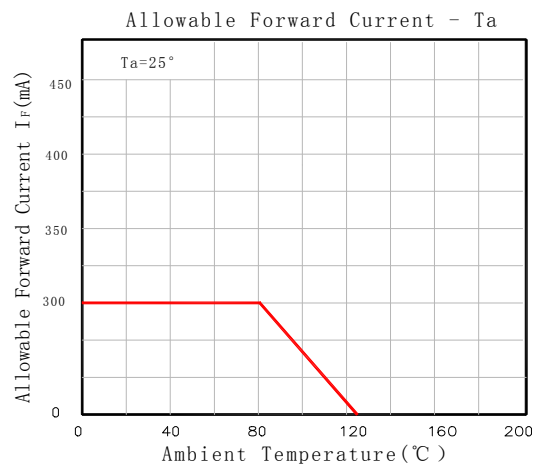
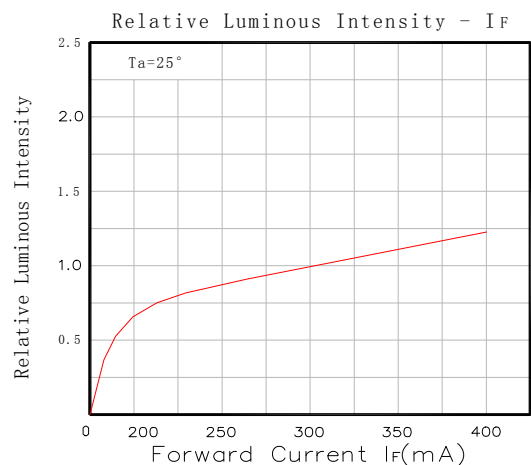
P3	仿夏普 12-15
P4	仿夏普 20-24
X1	仿西铁城 13.5-13.5
X2	仿西铁城 19-19
X3	仿西铁城 28-28
Z1	27MM 板
Z2	45MM 板
Z3	50MM 板

■Color & binning 色区分级



2700	0.4614	0.431	3000	0.4432	0.4171	3500	0.4122	0.409
	0.4732	0.429		0.4516	0.4091		0.421	0.401
	0.4643	0.41		0.4372	0.391		0.406	0.3805
	0.4525	0.412		0.4288	0.399		0.3972	0.3885
4100	0.3837	0.3954	5000	0.3488	0.3732	6500	0.316	0.3485
	0.3921	0.3874		0.3558	0.3652		0.3205	0.3405
	0.3766	0.3665		0.3434	0.3462		0.3099	0.326
	0.3682	0.3745		0.3364	0.3542		0.3054	0.334

■ Typical Optical/Electrical Characteristics Curves 典型光电参数曲线
(Ta=25℃ 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=300mA	1000Hrs	22	0/22
	高温/高湿寿命测试 High humidity Heat life test	JESD22-A101	Ta=60℃ RH=85% IF=300mA	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: can use soldering iron, (the best temperature is 300°C/3sec)
焊接: 采用烙铁手工焊接, 条件为 350°C/3sec。
- (4) 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
- (5) When use please remove protective blue film
使用的时候请撕下保护蓝膜