

DONGGUAN PENGYUAN OPTOELECTRONICES TECHNOLOGY CO., LTD.

东莞市鹏远光电科技有限公司

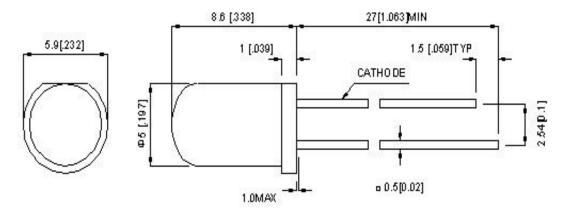
TEL:0769-81208888 81732500 87711337 FAX:0769-87711335

承认书

Specification For Approval

产品型号 Product Model: 5GG4-Y-T

尺寸 Dimensions: 单位 Unit: 毫米 mm [英寸] [inch]



备注 (Notes:)

1.所有尺寸单位是 mm

All dimension units are millimeters.

2.所有未标注尺寸公差为±0.2mm

All dimension tolerance is ± 0.2 mm unless otherwise noted.

3.所有胶体底部与引脚处多胶部分大约为 1.5mm

An epoxy meniscus may extend about 1.5mm down the leads.

4.胶体底部毛边小于等于 0.5mm

Burr around bottom of epoxy may be 0.5mm max.

| LED Chip (LED 芯片) | | 胶体颜色 | |
|-------------------|------------------------|--------------|--|
| 材料 Material | 发光颜色 Emitting Color | Lens Color | |
| InGaN | Green | Water Tinted | |



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最大绝对额定值(室温 = 25℃)Absolute Maximum Ratings at (Ta = 25℃)

| 吸入に出て、 | | | | | | |
|-----------------------------------|--------|--------------------------|------------|--|--|--|
| 项目 | 符号 | 最大绝对额定值 | 单位 | | | |
| ITEMS | SYMBOL | ABSOLUTE MAXIMUM RATING | UNIT | | | |
| 正向电流 Forward Current | IF | 50 | mA | | | |
| 峰值正向电流 Peak Forward Current | IFP | 220 | mA | | | |
| 连续工作电流 Continuous Forward Current | IL | 20 | mA | | | |
| 反向电压 Reverse Voltage | VR | 5 | V | | | |
| 功耗 Power Dissipation | PD | 100 | mW | | | |
| 工作温度 Operation Temperature | Topr | -40 ~ +80 | $^{\circ}$ | | | |
| 贮存温度 Storage Temperature | Tstg | -40 ~ +90 | $^{\circ}$ | | | |
| 引脚镀锡温度 Lead Soldering Temperature | Tsol | 最大温度 260℃,最长时间 5 秒 | | | | |
| | | Max.260°C for 5 sec Max. | | | | |

主要光电特性 (室温 = 25℃)Typical Electrical & Optical Characteristics (Ta = 25℃)

| 项目 ITEMS | 符号 Symbol | 测试条件 Test Condition | 最小值 Min. | 典型值 Typ. | 最大值 Max. | 单位 Unit |
|-----------------------------------|--------------|------------------------|-------------|-------------|-------------|------------|
| 发光强度 Luminous Intensity | Iv | IF=20mA | 5500 | 6000 | 6500 | mcd |
| 正向电压 Forward Voltage | IF | IF=20mA | 3.0 | 3.2 | 3.5 | V |
| 峰值波长 Peak Wavelength | λΡ | IF=20mA | | 520 | | nm |
| 主波长 Dominant Wavelength | λD | IF=20mA | 510 | 520 | 530 | nm |
| 视角 Viewing Angle | 2θ1/2 | IF=20mA | | 25 | | Deg |
| 发光强度 Luminous Intensity | Iv | IF=20mA | 5.5 | 6.0 | 6.5 | LM |
| 显色指数坐标 | Spm | X | | | | |
| Color Rendering Index Calculation | Spm | Y | | | | |
| 色温 Color Temperature | | | | | | k |



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可靠性试验

Reliability Performance

| 测试分类 | 测试项目 | 测试条件 | 持续时间 | 抽样大小 | 判定 |
|-----------------|--------------------------|---|----------------|-------------|----------|
| Test | Test Item | Test Conditions | Test Duration | Sample Size | Standard |
| Classification | | | | | |
| 寿命测试 | 寿命测试 | Ta= 25° C $\pm 5^{\circ}$ C, IF= 20 mA | 1000 小时(hrs) | 10PCS | OK |
| Life Test | Life Test | | | | |
| | 热冲击测试 | -10°C ±5°C ←→+100°C ±5°C | 100 循环(cycles) | 10PCS | OK |
| | Thermal Shock Test | 5min. 10sec. 5min. | | | |
| | 冷热循环测试 | -55°C ±5°C ←→+85°C ±5°C | 100 循环(cycles) | 10PCS | OK |
| | Temperature Cycle Test | 30min. 5min. 30min. | | | |
| 环境测试 | 高温高湿测试 | Ta=85°C ±5°C | 240 小时(hrs) | 10PCS | OK |
| Environment | High Temperature & | RH =85%±0.5 %RH | | | |
| Test | High Humidity Test | | | | |
| | 高温贮存测试 | Ta=100°C ±5°C | 1000 小时(hrs) | 10PCS | OK |
| | High Temperature Storage | | | | |
| | 低温贮存测试 | Ta=-55°C ±5°C | 1000 小时(hrs) | 10PCS | OK |
| | Low Temperature Storage | | | | |
| | 抗焊接热度 | | | 10PCS | OK |
| | Resistance to | Ta=260°C ±5°C | 5 秒(sec.) | | |
| 机械测试 | Soldering Heat | | | | |
| Mechanical Test | 引脚折弯 | 负荷 2.5 牛顿(0.25 千克) | 3 回合(times) | 10PCS | OK |
| | Lead Integrity | 0° ~ 90° ~ 0° | | | |