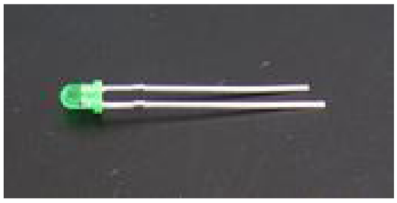
HUIYUAN ELECTRONIC CO.,LTD.

# TECHNOLOGY DATA SHEET & SPECIFICATIONS

**MODEL：3004G6D-EPB-P**



## Features

·Choice of various viewing angles
·Low Power consumption
·General purpose leads
·Available on tape and reel.
·Reliable and robust
·The product itself will remain within RoHS compliant version.
·Pb free

## Descriptions

- The LED lamps are available with different colors, intensities, epoxy colors, etc

## Usage Notes:

- When using LED, it must use a protective resistor in series with DC current about 18mA

## Applications

- TV set
- Monitor
- Telephone
- Computer

## Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|---|---|---|---|
| | Material | Emitted Color | |
| 3004G6D-EPB-P | GaP | Green | Color Diffused |

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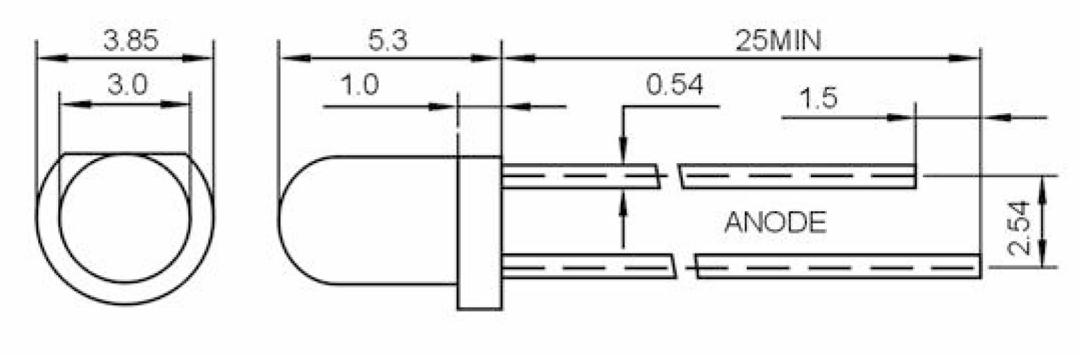
## Package Dimensions




**UNIT: mm**

## Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

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## Absolute Maximum Rating ($T_a$=25℃)

| Parameter | Symbol | Absolute Maximum Rating | Unit |
|---|---|---|---|
| Forward Pulse Current | $I_{FPM}$ | 100 | mA |
| Forward Current | $I_{FM}$ | 30 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Power Dissipation | $P_D$ | 90 | mW |
| Operating Temperature | Topr | -40～+80 | ℃ |
| Storage Temperature | Tstg | -40～+100 | ℃ |
| Soldering Heat (5s) | Tsol | 260 | ℃ |

Note: *1:Soldering time ≦ 5 seconds.

## Electro-Optical Characteristics ($T_a$=25℃)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|---|---|---|---|---|---|---|
| Luminous Intensity | Iv | 25 | --- | 50 | mcd | IF=20mA(Note1) |
| Viewing Angle | $2\theta_{1/2}$ | --- | 60 | --- | Deg | (Note 2) |
| Peak Emission Wavelength | λp | 565 | 570 | 575 | nm | IF=20mA |
| Spectral Line Half-Width | △λ | 15 | 20 | 25 | nm | IF=20mA |
| Forward Voltage | $V_F$ | 1.9 | --- | 2.3 | V | IF=20mA |
| Reverse Current | $I_R$ | --- | --- | 10 | μA | VR=5V |

## Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

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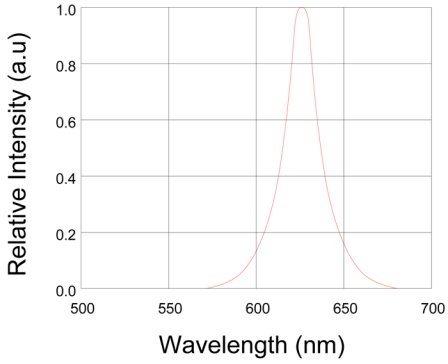
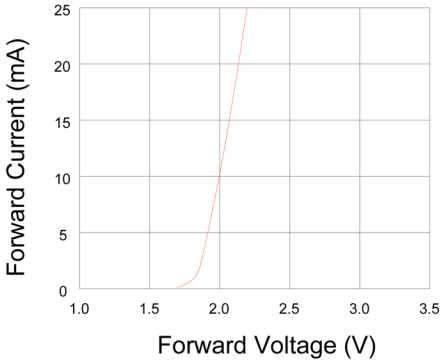
## Typical Electro-Optical Characteristics Curves

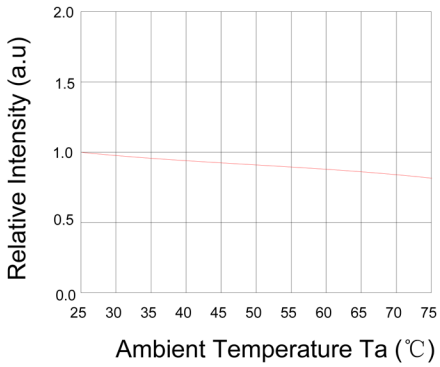
Relative Intensity VS. Wavelength



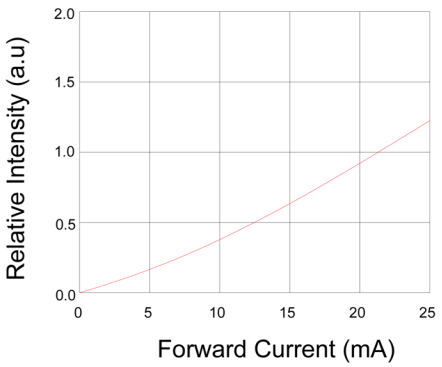

Forward Current VS.Forward Voltage



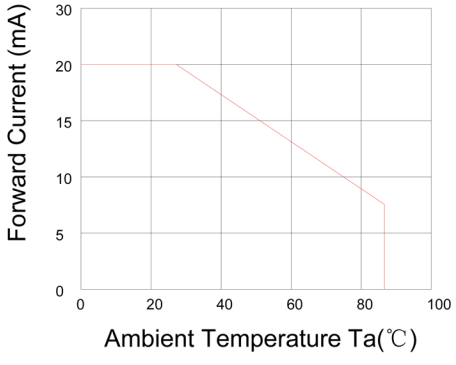

Relative Intensity VS. Ambient Temp




Forward Current VS.Relative Intensity




Forward Current VS.Ambient Temp.




Radiation Characteristics