# LightKey

## Datasheet of 5mm Round Blue Green Traffic LED Lamp

**Part NO: LLR522BG-D26**

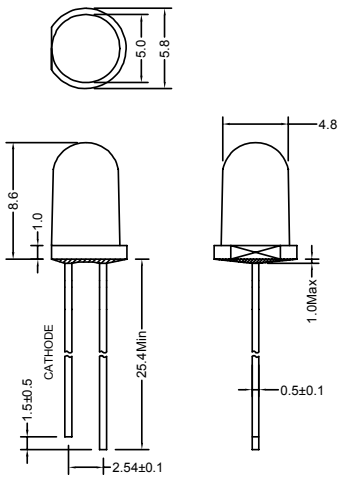
### Features:

Bi-color
High bright output
Large view angle
Low power consumption
High reliability and long life

### Descriptions:

Dice material: InGaN
Emitting Color: Super Bright Blue Green
Device Outline: ϕ5mm Round Type
Lens type: water clear

### Package Dimensions：




Notes:

1. All dimensions are millimeters: mm
Tolerance is +0.20mm unless otherwise noted

### Absolute maximum ratings (Ta=25℃)

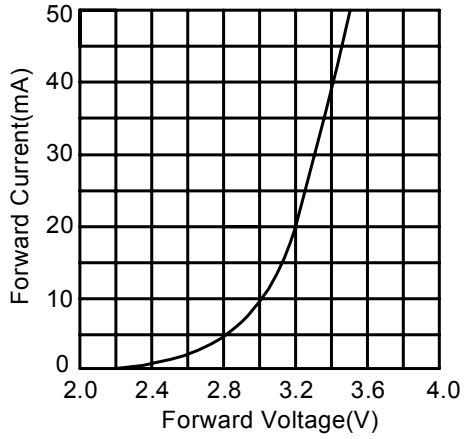
| Parameter | Symbol | Test Condition | Values | | Unit |
|---|---|---|---|---|---|
| | | | Min | Max | |
| Reverse Voltage | VR | IR=30μA | 5 | --- | V |
| Forward Current | IF | --- | --- | 25 | mA |
| Power Dissipation | Pd | --- | --- | 90 | mW |
| Pulse Current | Ipeak | Duty=0.1mS, 1kHz | --- | 100 | mA |
| Operating Temperature | Topr | --- | -40 | +85 | ℃ |
| Storage Temperature | Tstr | --- | -40 | +100 | ℃ |
| Electrostatic Discharge Rank | ESD | MIL-STD883E(HBM) | Class1 | | --- |

### Electrical and optical characteristics (Ta=25℃)

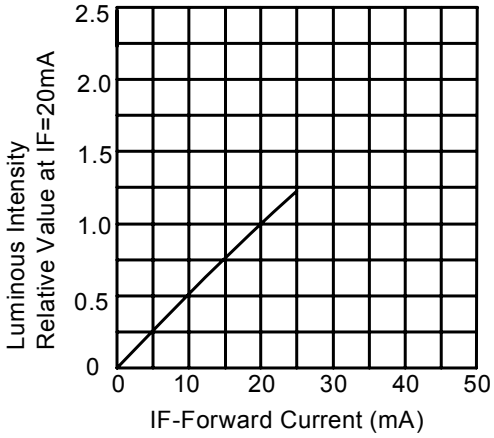
| Parameter | | Symbol | Test Condition | Values | | | Unit |
|---|---|---|---|---|---|---|---|
| | | | | Min. | Typ. | Max. | |
| Forward Voltage | | VF | IF=20mA | --- | 3.2 | 3.6 | V |
| Reverse Current | | IR | VR=5V | --- | --- | 30 | μA |
| Dominate Wavelength | | $\lambda_d$ | IF=20mA | --- | 505 | --- | nm |
| Peak Wavelength | | λ P | IF=20mA | --- | 500 | --- | nm |
| Spectral Line half-width | | △λ | IF=20mA | --- | 35 | --- | nm |
| Luminous Intensity LLR513BGC | -G | Iv | IF=20mA | 6000 | 8000 | --- | mcd |
| | -H | | | 8000 | 10000 | | |
| Viewing Angle | | 2θ1/2 | IF=20mA | --- | 26 | --- | Deg. |

**Typical Electrical-Optical Characteristics Curves: Blue Green**

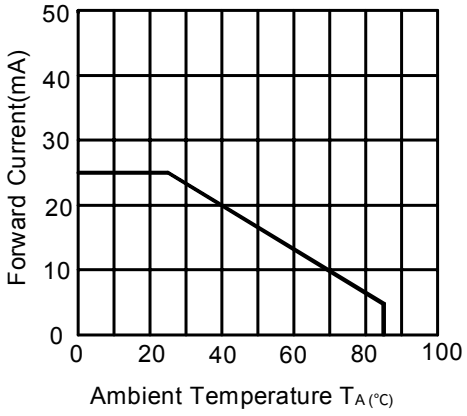
Forward Current Vs Forward Voltage



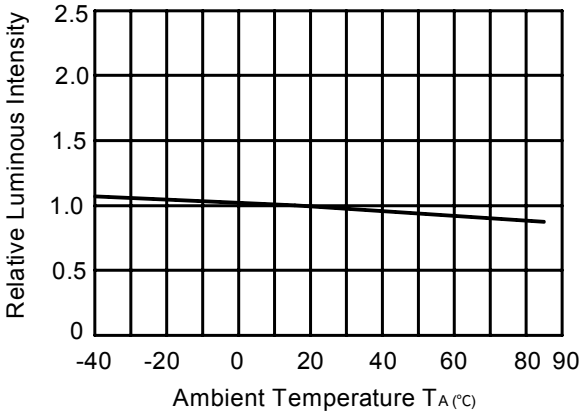

Relative Intensity Vs Forward Current




Forward Current Vs Enviromental Temp




Relative Intensity Vs Enviromental temp




Relative Intensity Vs Wavelength

