

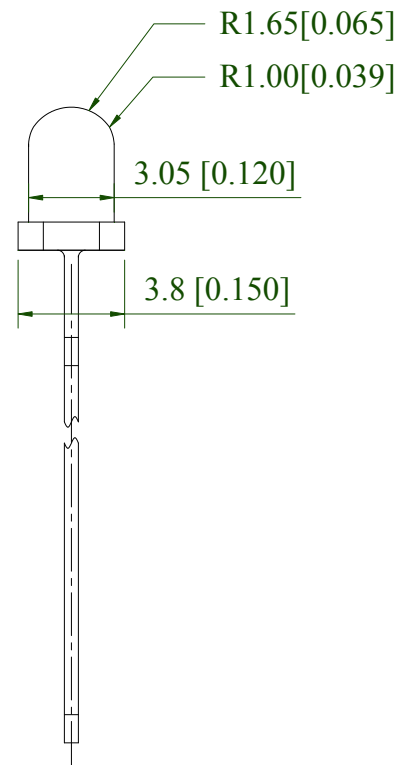
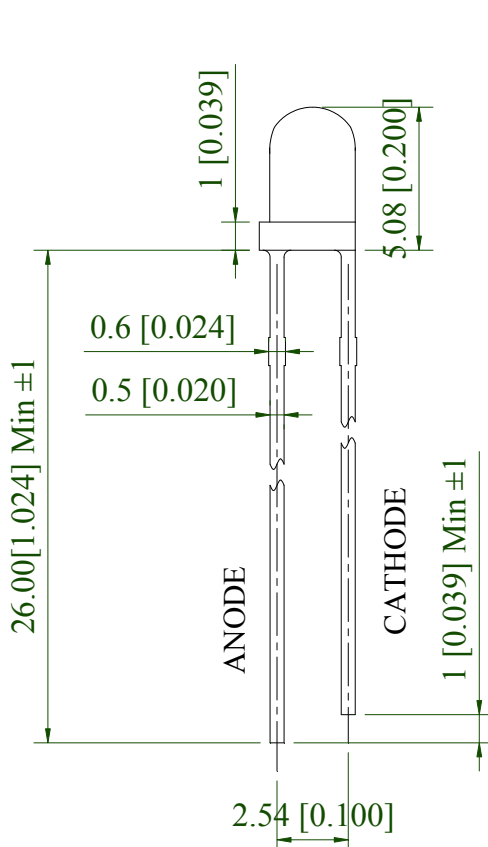
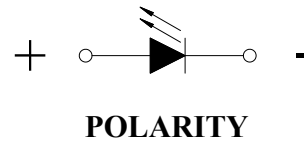
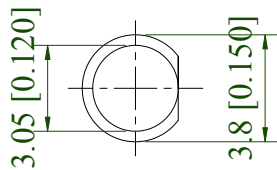
## Features:

- Low power consumption.
- General purpose leads.
- High efficiency.
- Reliable and robust.

## Applications:

- Telephone.
- Computer.
- Circuit board.
- Status indicators.
- Commercial use.

| Part No.      | Emitting Color | Lens Color(LED) |
|---------------|----------------|-----------------|
| RND 135-00151 | Bluish Green   | Water Clear     |



**Absolute Maximum Ratings at Ta=25°C**

| Parameters                          | Symbol     | Max.                | Unit |
|-------------------------------------|------------|---------------------|------|
| Power Dissipation                   | $P_d$      | 90                  | mW   |
| Peak Forward Current <sup>(a)</sup> | $I_{FP}$   | 100                 | mA   |
| DC Forward Current <sup>(b)</sup>   | $I_F$      | 25                  | mA   |
| Reverse Voltage                     | $V_R$      | 5                   | V    |
| Operating Temperature Range         | $T_{opr}$  | -40°C to +80°C      |      |
| Storage Temperature Range           | $T_{stg}$  | -40°C to +85°C      |      |
| Soldering Temperature               | $T_{slid}$ | 260°C for 5 Seconds |      |

## Notes:

- a. Derate linearly as shown in derating curve.
- b. Duty Factor = 10%, Frequency = 1 kHz.

**Electrical Optical Characteristics at Ta=25°C**

| Parameters                         | Symbol          | Min. | Typ. | Max. | Unit | Test Condition |
|------------------------------------|-----------------|------|------|------|------|----------------|
| Luminous Intensity <sup>(a)</sup>  | $I_v$           | 5000 | 8500 | ---  | mcd  | IF=20mA        |
| Viewing Angle <sup>(b)</sup>       | $2\theta_{1/2}$ | ---  | 30   | ---  | deg. | IF=20mA        |
| Peak Emission Wavelength           | $\lambda_p$     | ---  | 500  | ---  | nm   | IF=20mA        |
| Dominant Wavelength <sup>(c)</sup> | $\lambda_d$     | ---  | 505  | ---  | nm   | IF=20mA        |
| Spectral Line Half-Width           | $\Delta\lambda$ | ---  | 30   | ---  | nm   | IF=20mA        |
| Forward Voltage                    | VF              | 2.6  | 3.2  | 3.6  | V    | IF=20mA        |
| Reverse Current                    | IR              | ---  | ---  | 10   | μA   | VR=5V          |

## Notes:

- a. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- b.  $2\theta_{1/2}$  is the o-axis angle where the luminous intensity is 1/2 the peak intensity.
- c. The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

## Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

