

LL-304UYC2E-Y2-2BC

DATA SHEET

QC:

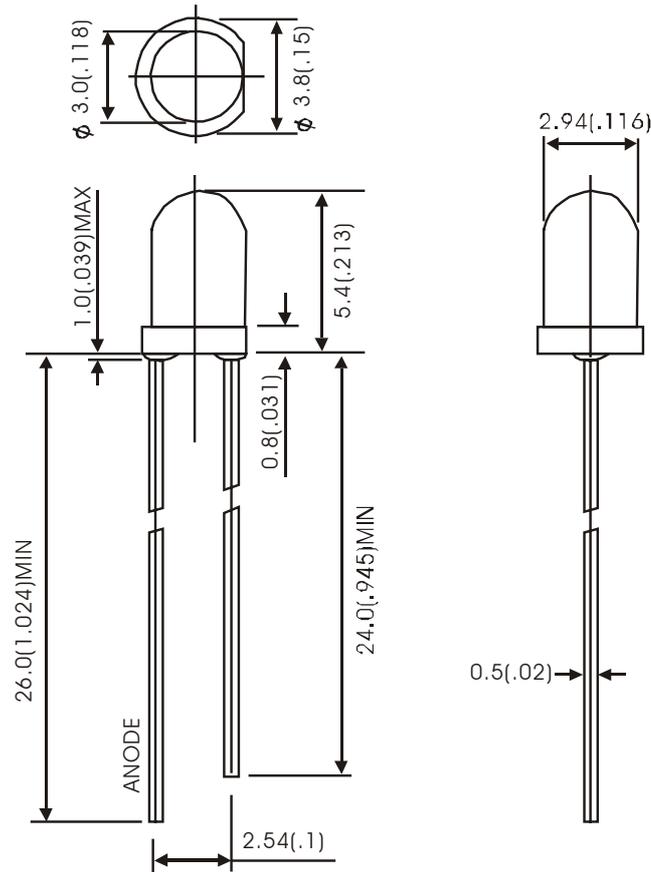
ENG:

Prepared By:

Features

- ◆ Standard T-1 diameter type package
- ◆ Small viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



| Part NO. | Chip Material | Lens Color | Source Color |
|--------------------|---------------|-------------|---------------------|
| LL-304UYC2E-Y2-2BC | InGaAlP | Water Clear | Super Bright Yellow |

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(.010)$ mm unless otherwise noted.
3. Protruded resin under flange is $1.0\text{mm}(.04)$ max
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice

Absolute Maximum Ratings at Ta=25°C

| Parameter | MAX. | Unit |
|--|---------------------|-------|
| Power Dissipation | 85 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | mA |
| Continuous Forward Current | 50 | mA |
| Derating Linear From 50°C | 0.4 | mA/°C |
| Reverse Voltage | 5 | V |
| Operating Temperature Range | -40°C to +80°C | |
| Storage Temperature Range | -40°C to +80°C | |
| Lead Soldering Temperature [4mm(.157") From Body] | 260°C for 5 Seconds | |

Electrical Optical Characteristics at Ta=25°C

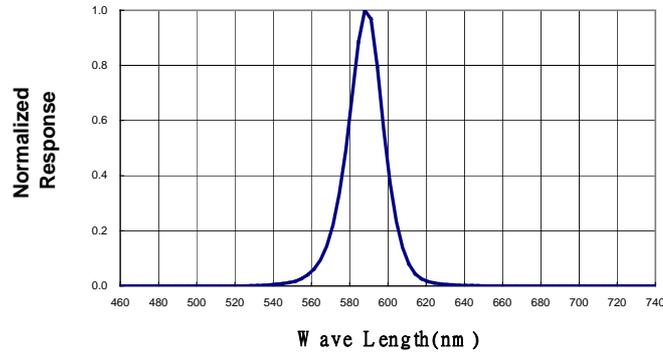
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|--------------------|------|------|------|------|-------------------------------|
| Luminous Intensity | I _v | 2500 | 3000 | 4000 | mcd | I _F =20mA (Note 1) |
| Viewing Angle | 2 θ _{1/2} | 19 | 24 | 30 | Deg | (Note 2) |
| Peak Emission Wavelength | λ _p | --- | 588 | --- | nm | I _F =20mA |
| Dominant Wavelength | λ _d | --- | 590 | --- | nm | I _F =20mA (Note 3) |
| Spectral Line Half-Width | △λ | --- | 19 | --- | nm | I _F =20mA |
| Forward Voltage | V _F | 1.7 | 2.0 | 2.6 | V | I _F =20mA |
| Reverse Current | I _R | --- | --- | 100 | μA | V _R =5V |

Note:

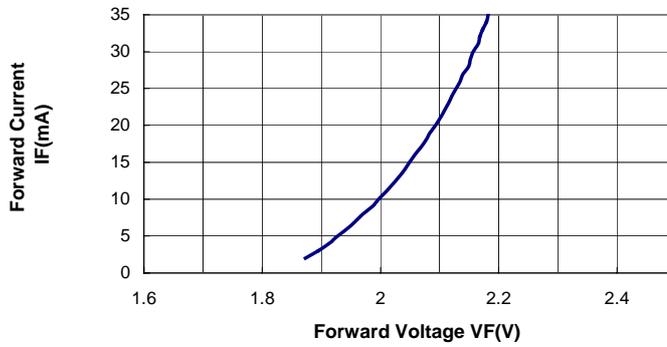
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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

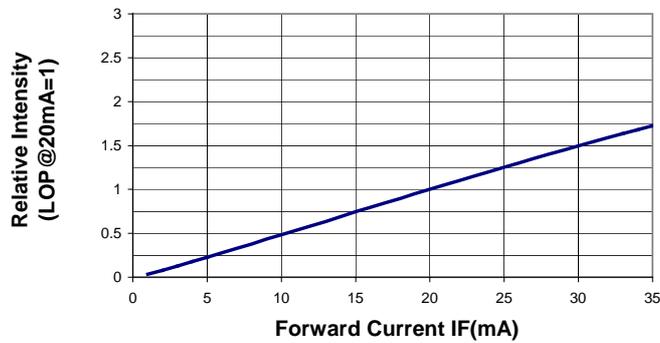
Spectral Radiance (Peak @ 588 nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

