

LL-1003UYC2D-Y2-3EC

DATA SHEET

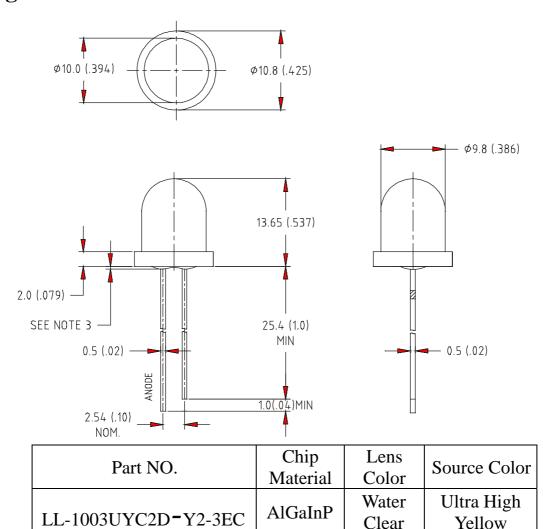
QC: ENG: Prepared By:



Features

- ♦ High intensity
- ♦ 10mm diameter package
- ♦ Small viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



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 1.0mm(.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℃

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	35	mA
Derating Linear From 50℃	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°	C
Storage Temperature Range	-40°C to +80°	CC
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Sec	onds

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	3000	5000		mcd	I _F =20mA (Note 1)
Viewing Angle	2 0 1/2	17	22	27	Deg	(Note 2)
Peak Emission Wavelength	λр	587	592	597	nm	I _F =20mA
Dominant Wavelength	λd	584	590	596	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	Δλ	17	22	27	nm	I _F =20mA
Forward Voltage	V_{F}	1.8	2.1	2.8	V	I _F =20mA
Reverse Current	I_R			100	μΑ	V _R =5V

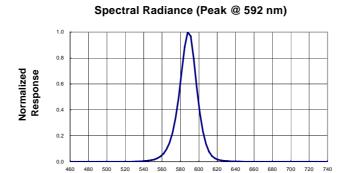
Note:

- 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.
- 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.

|--|

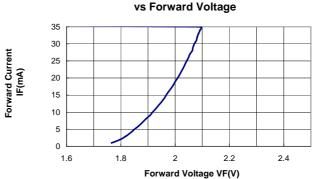


Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

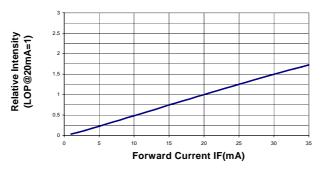


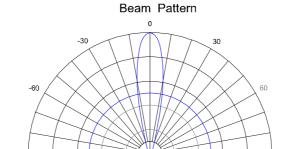
Forward Current

Wave Length(nm)



Relative Luminous Intensity vs Forward Current





Relative Intensity (LOP@MAX=1)