

# **LL-S150UYC-Y2-2B**

## **DATA SHEET**

QC:

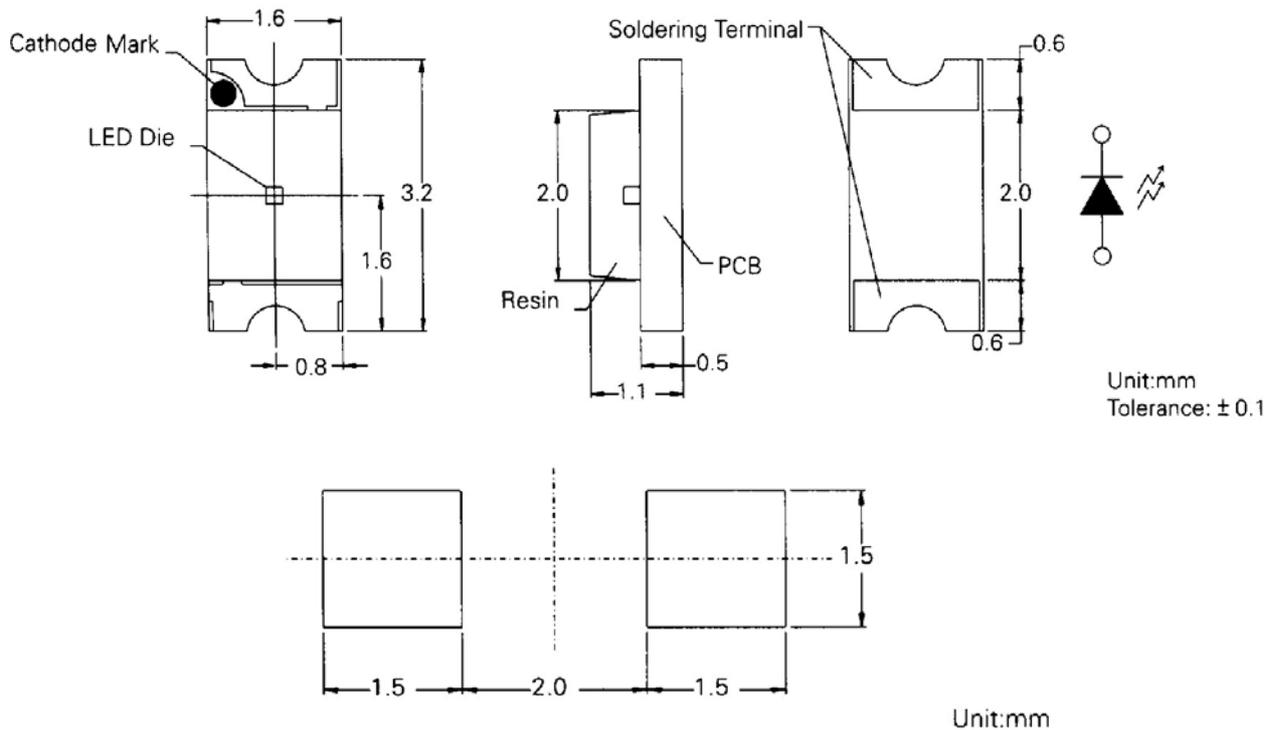
ENG:

Prepared By:

## Features

- ◆ Compatible with automatic placement equipment.
- ◆ Compatible with infrared and vapor phase reflow solder process
- ◆ Mono-color type
- ◆ General purpose leads
- ◆ Reliable and rugged

## Package Dimension:



Part NO.	Chip Material	Lens Color	Source Color
LL-S150UYC-Y2-2B	AlGaInP	Water Clear	Ultra Yellow

### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.10$  (.004") unless otherwise specified.
3. Specifications are subject to change without notice.
4. Caution in ESD:  
Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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

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°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-30°C to +80°C	
Storage Temperature Range	-40°C to +85°C	
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds	

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

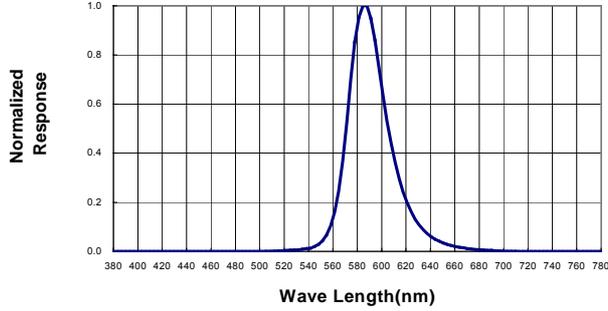
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	40	80	---	mcd	I <sub>F</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>	---	120	---	Deg	(Note 2)
Peak Emission Wavelength	λ <sub>p</sub>	583	588	593	Nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>	583	590	596	Nm	I <sub>F</sub> =20mA (Note 3)
Spectral Line Half-Width	Δλ	35	35	40	Nm	I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>	---	2.0	2.4	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	---	---	100	μA	V <sub>R</sub> =5V

**Note:**

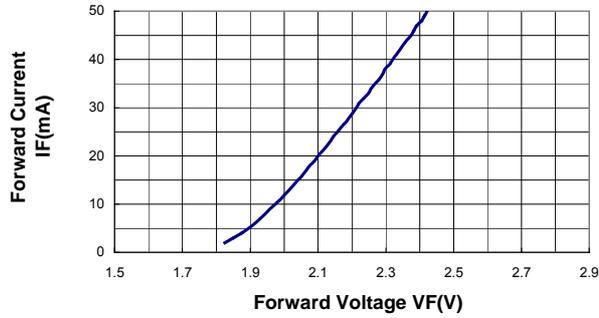
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ<sub>d</sub>) is derived from the CIE 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)**

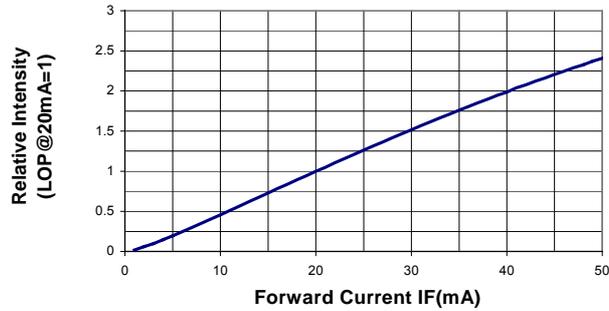
**Spectral Radiance (Peak @ 588nm)**



**Forward Current vs Forward Voltage**



**Relative Luminous Intensity vs Forward Current**



**Beam Pattern**

