LUCKY LIGHT

LL-S192YC

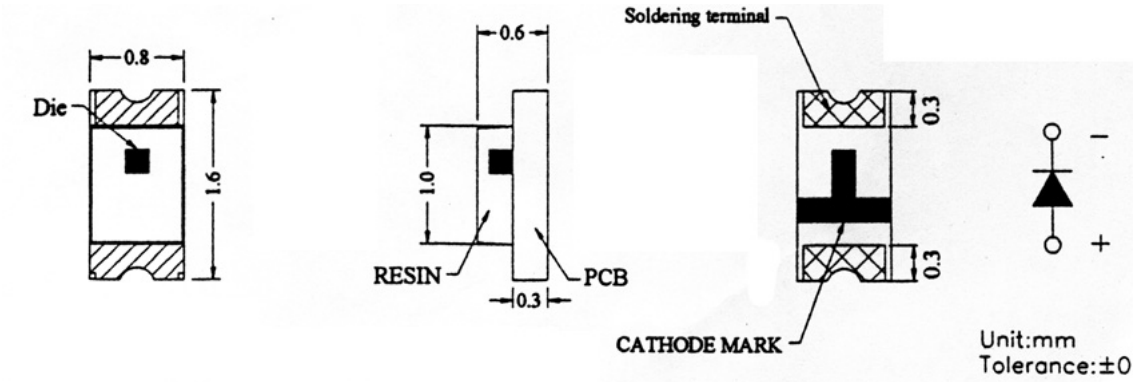
DATA SHEET

QC:　　ENG:　　Prepared By:

Features

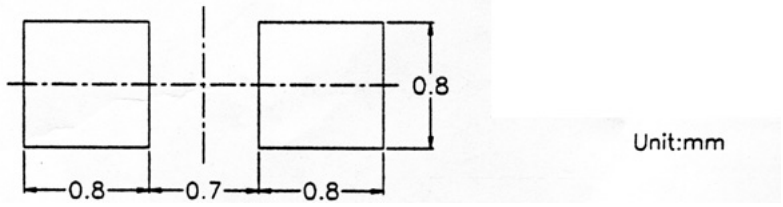
- High intensity
- 1.6x0.8x0.6mm(SMD 0603) package
- Wide viewing angle
- General purpose leads
- Reliable and rugged

Package Dimension:



1. Soldering terminal may shift in x, y direction.
2. Polarity referring onto the cathode mark is reversed on the UR/HR/SR

◆ **Recommended Soldering Pad Dimensions**



Part NO.	Lens Color	Source Color
LL-S192YC	Water Clear	True Yellow

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10(.004") unless otherwise specified.
3. Specifications are subject to change without notice
4. Caution in ESD:
   Siatic Electricity and surge damages the LED. lt 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℃

Parameter	MAX.	Unit
Power Dissipation	120	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/℃
Reverse Voltage	5	V
Operating Temperature Range	-30℃ to +80℃	
Storage Temperature Range	-40℃ to +85℃	
Lead Soldering Temperature [4mm(.157") From Body]	260℃ for 5 Seconds	

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	---	8	---	mcd	I_F=20mA (Note 1)
Viewing Angle	$2\theta_{1/2}$	100	120	140	Deg	(Note 2)
Peak Emission Wavelength	λp	583	588	593	Nm	I_F=20mA
Dominant Wavelength	λd	583	590	596	Nm	I_F=20mA (Note 3)
Spectral Line Half-Width	△λ	35	35	40	Nm	I_F=20mA
Forward Voltage	V_F	---	2.15	2.8	V	I_F=20mA
Reverse Current	I_R	---	---	50	μA	V_R=5V

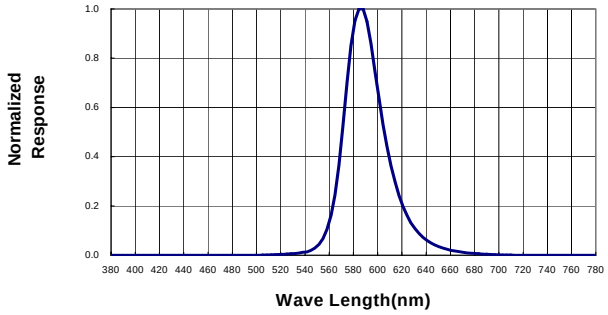
Note:

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

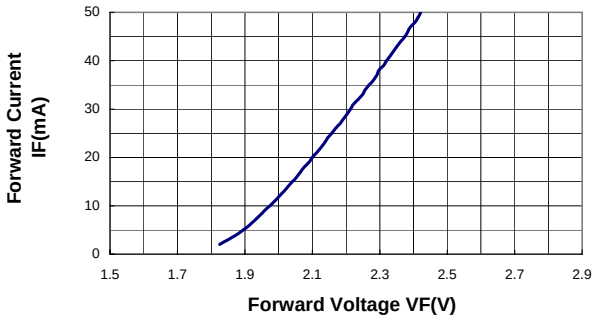
Typical Electrical / Optical Characteristics Curves

25℃ Ambient Temperature Unless Otherwise Noted)

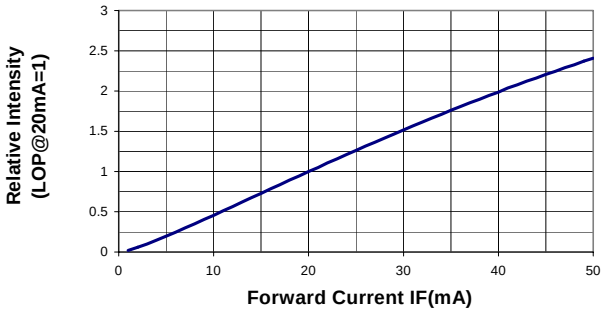
Spectral Radiance (Peak @ 588nm)



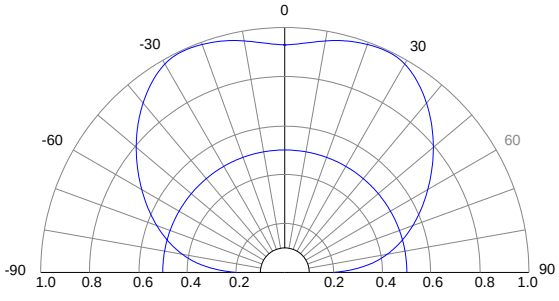
Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern



Relative Intensity (LOP@MAX=1)