



LUCKY LIGHT

LL-S150AC

DATA SHEET

QC:

ENG:

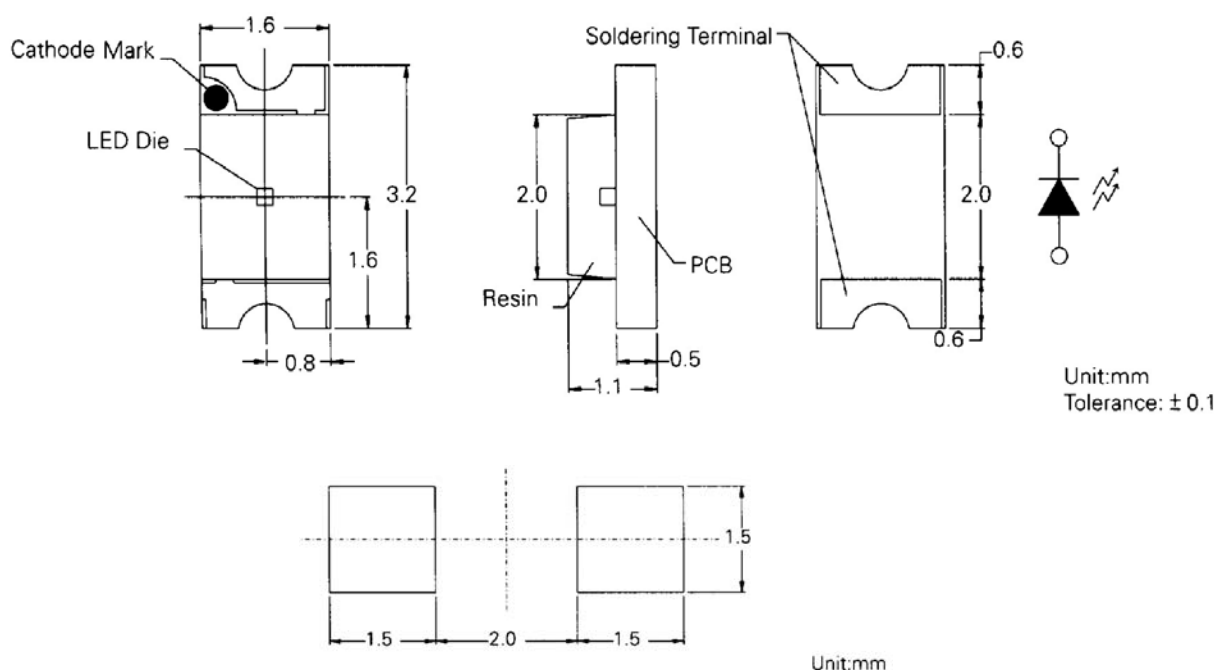
Prepared By:

Part No.	LL-S150AC	Spec No.	S/N-00093014D	Page	1 of 4
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Features

- ◆ High intensity
- ◆ 3.2*1.1*1.6mm(1206,SMD) package
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



Part No	Lens Color	Source Color
LL-S150AC	Water Clear	Amber

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:
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	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	---	5.5	---	mcd	I _F =20mA (Note 1)
Viewing Angle	2 θ 1/2	---	140	---	Deg	(Note 2)
Peak Emission Wavelength	λ p	---	605	---	nm	I _F =20mA
Dominant Wavelength	λ d	---	607	---	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	$\triangle \lambda$	---	20	---	nm	I _F =20mA
Forward Voltage	V _F	---	2.15	2.7	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

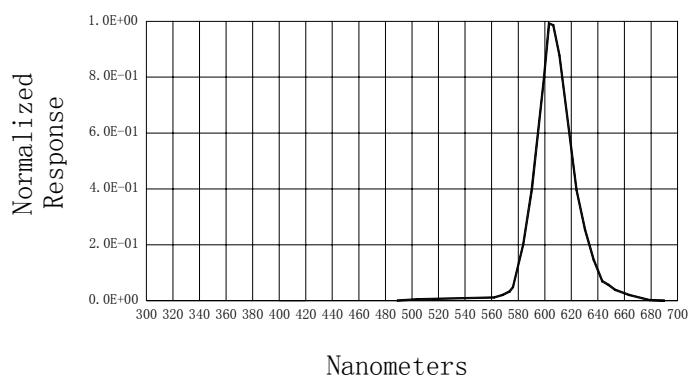
Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ 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.

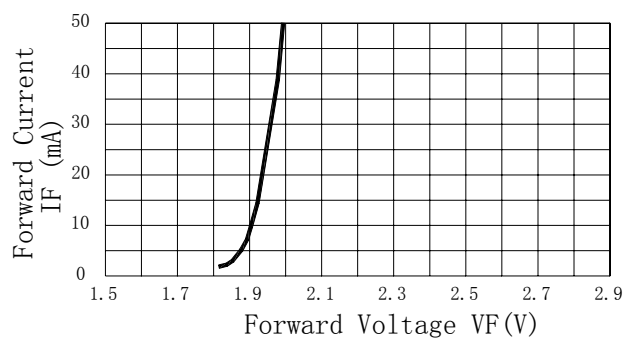
Typical Electric/Optical Characteristics Curves

(25 ℃ Ambient Temperature Unless Otherwise Noted)

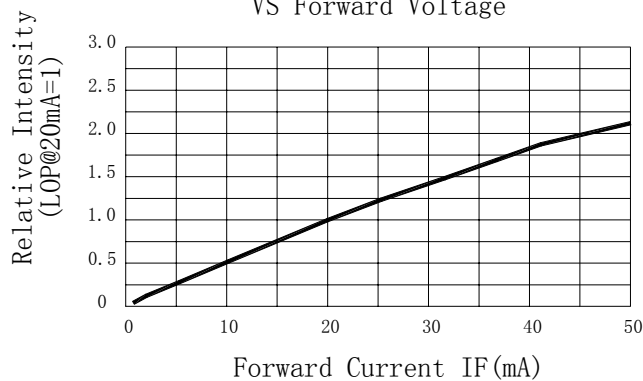
Spectral Radiance Peak @ 605nm



Forward Current
VS Forward Voltage



Relative Luminous Intensity
VS Forward Current



Beam Pattern

