



LUCKY LIGHT

LL-S192UAC

DATA SHEET

QC :

ENG :

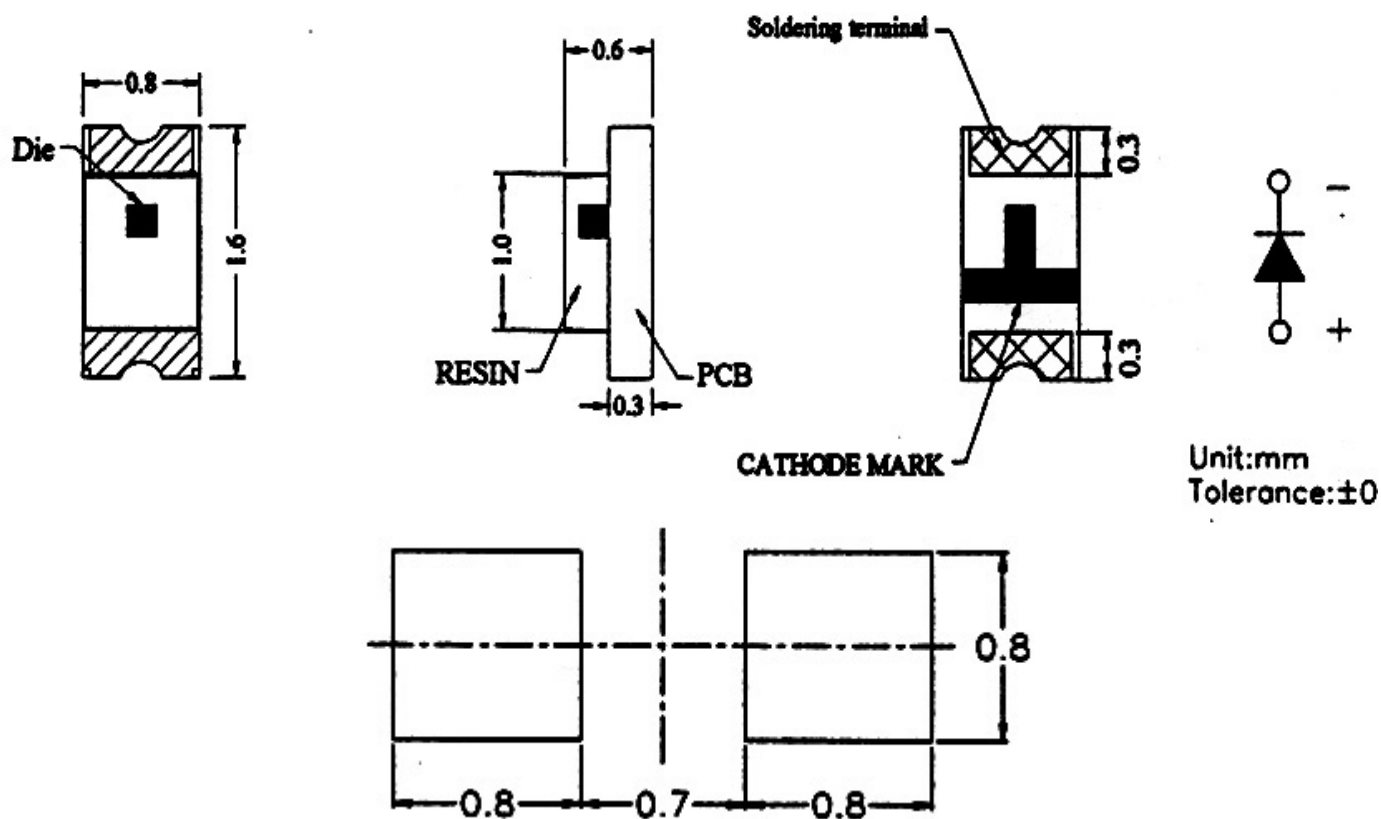
Prepared By:

Part No.	LL-S192UAC	Spec No.	S/N-109OSAH06	Page	1 of 1
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Features

- ◆ Compatible with automatic placement equipment.
- ◆ Compatible with infrared and vapor phase reflow solder process
- ◆ Mono-color type
- ◆ Wide viewing angle
- ◆ Reliable and rugged

Package Dimension:



Part NO.	Material	Lens Color	Source Color
LL-S192UAC	AlGaInp	Water Clear	Ultra 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

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	60	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	160	mA
Continuous Forward Current	65	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	
Soldering Temperature	260°C for 5 Seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	10	25	50	mcd	I _F =20mA (Note 1)
Viewing Angle	2 θ _{1/2}	---	140	---		
Peak Emission Wavelength	λ _p	---	605	610	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	Δλ	---	20	---	nm	I _F =20mA
Forward Voltage	V _F	---	2.10	2.6	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

Note:

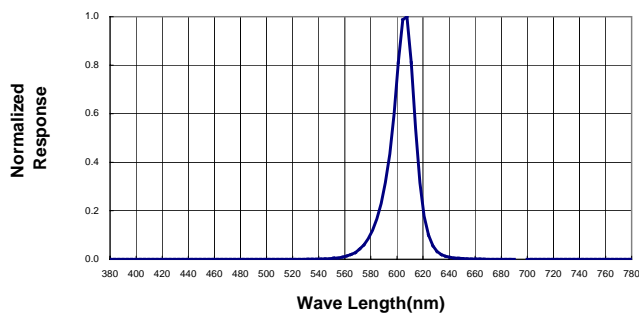
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. Peak Emission wavelength (λ_p) is derived from the CIE chromaticity diagram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



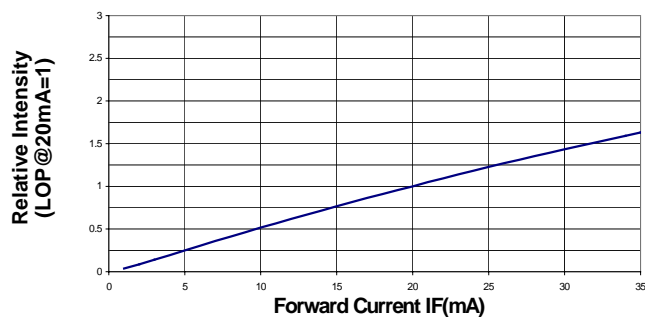
LUCKY LIGHT

Typical Electric/Optical Characteristics Curves (25 AC Ambient Temperature Unless Otherwise Noted)

Spectral Radiance (Peak @ 605nm)



**Relative Luminous Intensity
vs Forward Current**



**Forward Current
vs Forward Voltage**

