

LL-S192UC

**DATA SHEET** 

QC: ENG: Prepared By:

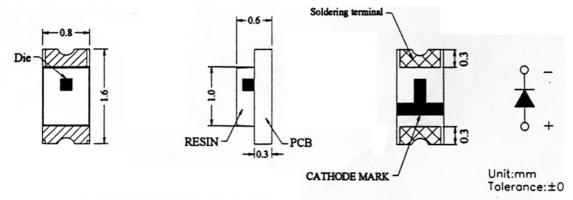
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## **Features**

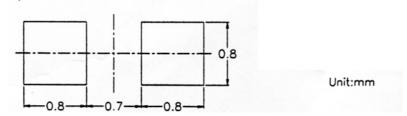
- ♦ High intensity
- ◆ 1.6x0.8x0.6mm(SMD 0603) package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

# **Package Dimension:**



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

### ▶ Recommended Soldering Pad Dimensions



Part NO.	Lens Color	Source Color
LL-S192UC	Water Clear	Super Red

#### **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.
- 6. Caution in ESD:

Siatic 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.

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## **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°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 $^{\circ}$ C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Intensity Iv 30 45 60 mcd I=20m		I <sub>F</sub> =20mA (Note 1)				
Viewing Angle	2 \theta 1/2	100	120	140	Deg	(Note 2)	
Peak Emission Wavelength	λp	655	660	665	Nm	I=20mA	
Dominant Wavelength	λd	633	643	653	Nm	I <sub>F</sub> =20mA (Note 3)	
Spectral Line Half-Width	Δλ	35	40	45	Nm	I=20mA	
Forward Voltage V <sub>F</sub>		1.85	2.5	V	I=20mA		
Reverse Current	$ m I_R$			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.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength ( $\lambda$ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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

