

LL-S110SC

**DATA SHEET** 

QC: ENG: Prepared By:

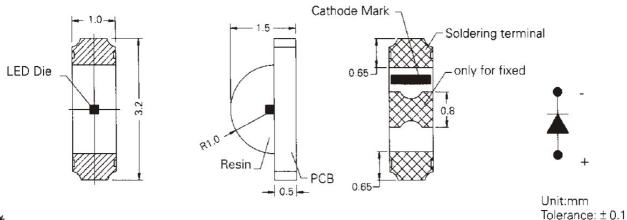
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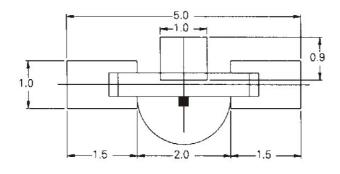
#### **Features**

- 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:**



\* Polarity referring onto the cathode mark is reversed on the UR/HR/SR



Unit:mm

Part NO.	Chip Material	Lens Color	Source Color	
LL-S110SC	AlGaGs	Water Clear	Super Red	

#### **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:

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	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℃**

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	3	7		mcd	I <sub>F</sub> =20mA (Note 1)
Viewing Angle	2 \theta 1/2		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	$V_{\text{F}}$		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)

