

LL-S170BC

DATA SHEET

QC: ENG: Prepared By:

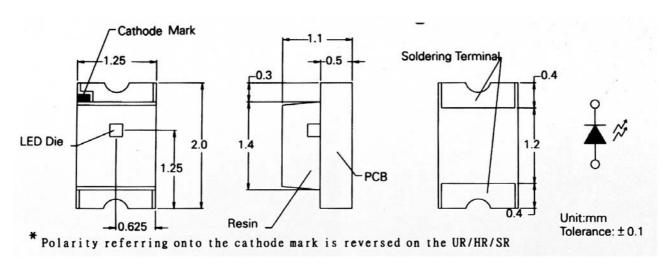
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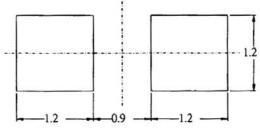


Features

- ♦ High intensity
- ◆ 2.0*1.1*1.25mm(0805,SMD) package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:





| Part NO. | Lens Color | Source Color |
|-----------|-------------|-------------------|
| LL-S170BC | Water Clear | Super Bright Blue |

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 | 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℃

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Test Condition | |
|--------------------------|--------------|------|------|------|------------------------|-------------------------------|--|
| Luminous Intensity | Iv | 15 | 40 | 60 | 60 mcd I=20mA (Note 1) | | |
| Viewing Angle | 2 \theta 1/2 | | 140 | | Deg | (Note 2) | |
| Peak Emission Wavelength | λр | 463 | 468 | 473 | Nm | I=20mA | |
| Dominant Wavelength | λd | 460 | 470 | 480 | Nm | I _F =20mA (Note 3) | |
| Spectral Line Half-Width | Δλ | 35 | 40 | 45 | Nm | I=20mA | |
| Forward Voltage | V_{F} | 2.8 | 3.5 | 4.0 | V | I=20mA | |
| Reverse Current | $ m 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.

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

