

LL-S170AC

DATA SHEET

QC: ENG: Prepared By:

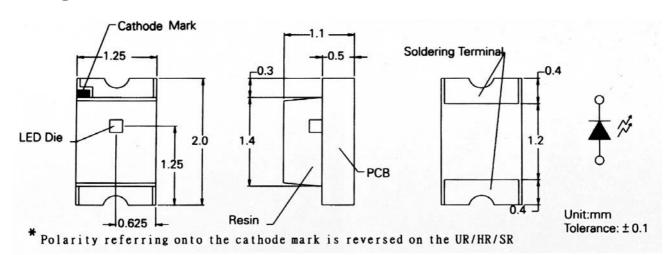
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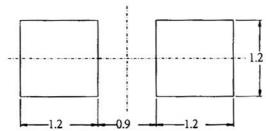


Features

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

Package Dimension:





Part NO. Chip Material		Lens Color	Source Color	
LL-S170AC	GaAsP	Water Clear	Amber	

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	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.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv		10	30	mcd	I=20mA (Note 1)
Viewing Angle	2 θ 1/2		140		Deg	(Note 2)
Peak Emission Wavelength	λp		605		nm	I=20mA
Dominant Wavelength	λd		610		nm	I=20mA (Note 3)
Spectral Line Half-Width	Δλ		20		nm	I=20mA
Forward Voltage	V _F		2.15	2.7	V	I=20mA
Reverse Current	IR			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.

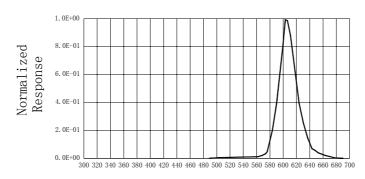
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Typical Electric/Optical Characteristics Curves

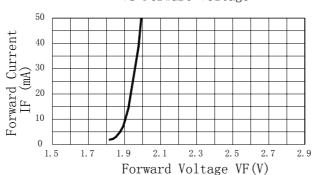
(25 AC Ambient Temperature Unless Otherwise Noted)

Spectral Radiance Peak @ 605nm

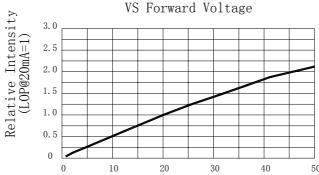


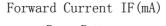
Nanometers

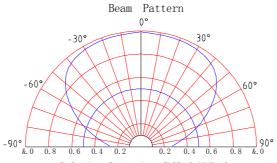
Forward Current VS Forward Voltage



Relative Luminous Intensity







Relative Intensity (LOP @ MAX=1)