

LL-S190PGC

DATA SHEET

QC: ENG: Prepared By:

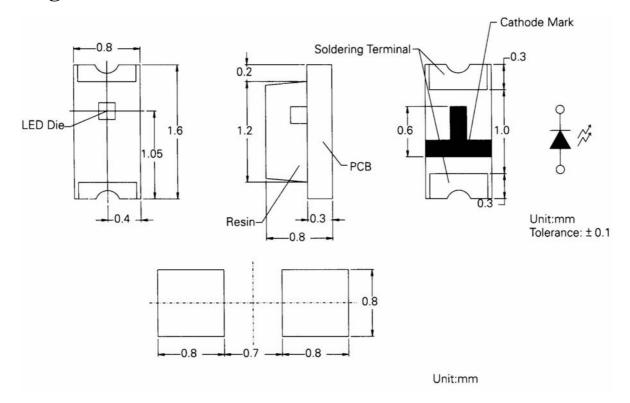
Part No.	LL-S190PGC	Spec No.	S/N-01102811S	Page	1 of 4
----------	------------	----------	---------------	------	--------



Features

- ♦ High intensity
- ♦ 1.6x0.8x0.6 mm diameter ellipse package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color		
LL-S190PGC	Water Clear	True Green		

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.

Part No.	LL-S190PGC	Spec No.	S/N-01102811S	Page	2 of 4
----------	------------	----------	---------------	------	--------



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	Iv		65		mcd	I _F =20mA (Note 1)	
Viewing Angle	2 \theta 1/2	100	120	140	Deg	(Note 2)	
Peak Emission Wavelength	λр	515	520	525	Nm	I=20mA	
Dominant Wavelength	λd	515	525	535	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	IR			100	μΑ	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.

Part No.	LL-S190PGC	Spec No.	S/N-01102811S	Page	3 of 4
----------	------------	----------	---------------	------	--------



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

