LUCKY LIGHT

LL-S110AC-A10

DATA SHEET

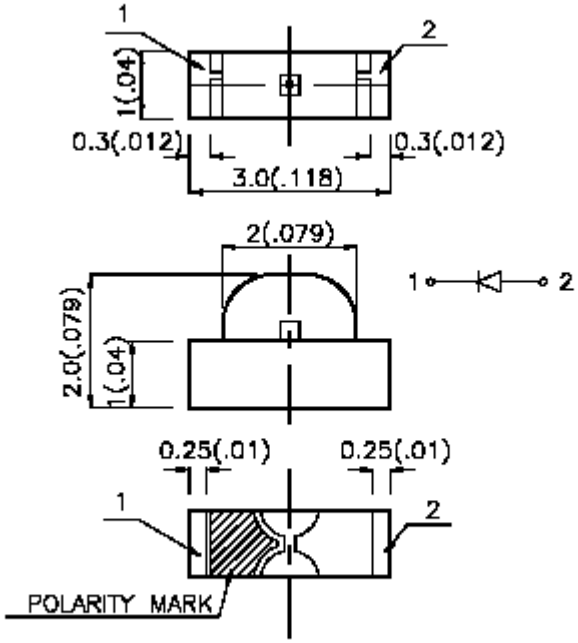
QC:　　ENG:　　Prepared By:

Part No.	LL-S110AC-A10	Spec No.	S/N-KB301060510A	Page	1 of 1

Features

- 3.0mm×1.0mm SMT LED,2.0mm thickness.
- low power consumption
- Deal for back light and indicator
- Wide viewing angle
- Reliable and rugged

Package Dimension:



Part NO.	Material	Lens Color	Source Color
LL-S110AC-A10	GaAsp/Gap	Water Clear	Amber

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±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

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	30	mA
Derating Linear From 50℃	0.4	mA/℃
Reverse Voltage	5	V
Operating Temperature Range	-40℃ to +80℃	
Storage Temperature Range	-40℃ to +80℃	
Soldering Temperature	260℃ for 3 Seconds	

Electrical Optical Characteristics at Ta=25℃

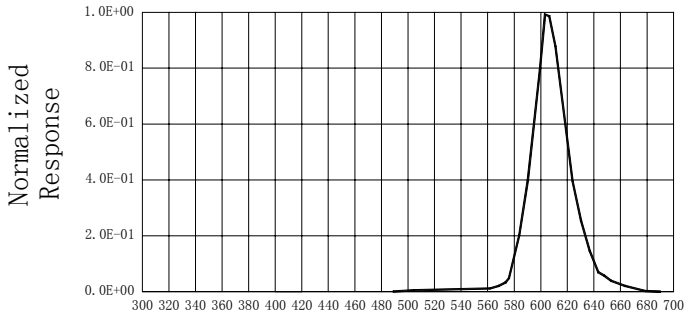
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	5.0	12	---	mcd	I_F=20mA (Note 1)
Viewing Angle	2θ 1/2		120		Deg	(Note 2)
Peak Emission Wavelength	λ p	---	605	610	nm	I_F=20mA
Spectral Line Half-Width	△ λ	---	35	---	nm	I_F=20mA
Forward Voltage	V_F	---	2.15	2.8	V	I_F=20mA
Reverse Current	I_R	---	---	100	μA	V_R=5V

Note:

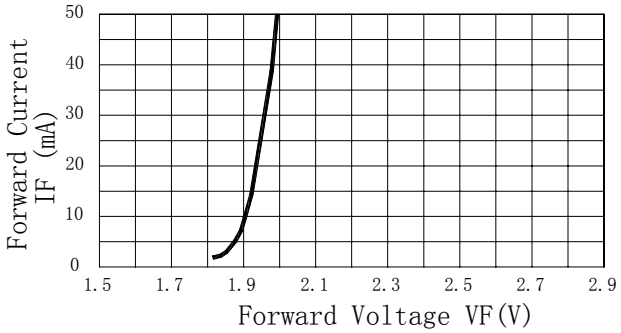
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ p) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Typical Electric/Optical Characteristics Curves
(25℃ Ambient Temperature Unless Otherwise Noted)

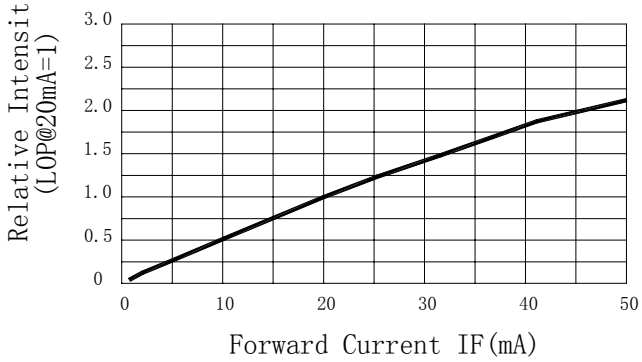
Spectral Radiance Peak @ 605nm



Forward Current
VS Forward Voltage



Relative Luminous Intensity
VS Forward Voltage



Beam Pattern