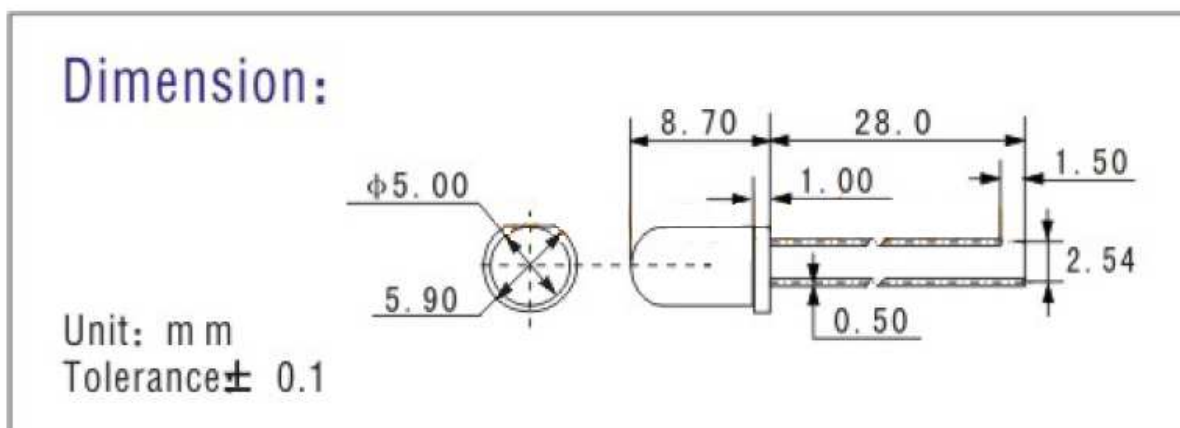


SE-5-04BC-12

## DATA SHEET

- Encapsulated with water clear color package
- General purpose leads
- Reliable and rugged

Chip Material	Source Color	Lens Color
InGaAlN	Blue	Water Clear



**Notes:**

1. All dimensions are in millimeters.
2. Tolerance  $\pm 0.1$ mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm max.
4. Lead spacing is measured where the leads emerge from the package
5. Specifications are subject to change without notice.
6. This data-sheet only valid for six months.

**Absolute Maximum Rating**

Parameter	Maximum Rating	Unit
Peak Forward Current	100	mA
Continuous Forward Current	25	mA
Debating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-30°C to +85°C	
Storage Temperature Range	-30°C to +85°C	
Lead Soldering Temperature [4mm From Body]	260°C for 3 seconds	

## Electro-Optical Characteristics ( Ta=25°C )

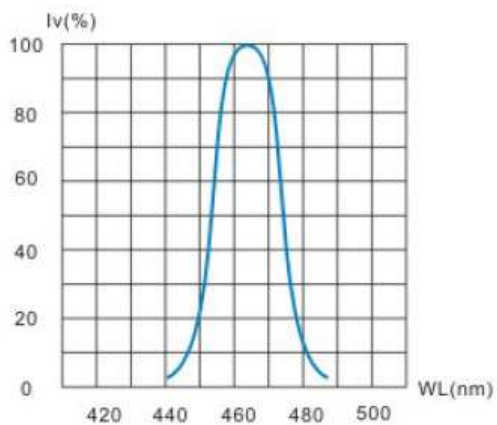
Parameter Radiant	Test Condition	Symbol	Min.	Typ	Max.	Unit
Forward Voltage	If=20mA	VDD		12		V
Wavelength	If=20mA	$\lambda D$	460		470	nm
Luminous Intensity	If=20mA	Iv	4000		7000	mcd
Reverse Current	Vr=5V	Ir	0		10	$\mu A$
Viewing Angle	If=20mA	$2\theta 1/2$	10		15	deg

### Notes:

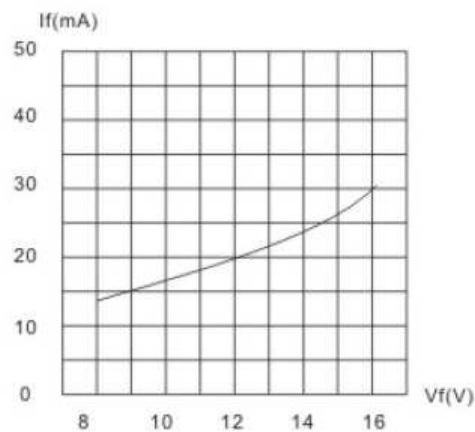
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2.  $\theta 1/2$  is the off axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (  $\lambda D$  ) is derived from the CIE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

## Typical /electrical/ optical characteristics Curves ( Ta=25°C )

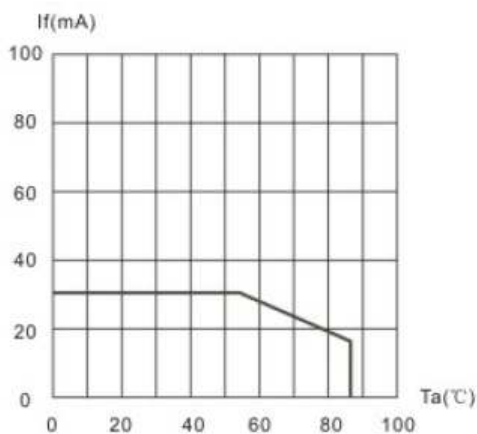
Relative Luminous Intensity vs. Wavelength



Forward characters vs. Forward voltage



Forward characters vs. Temperature



Beam Pattern

