

**PRELIMINARY**

Lead ( Pb ) Free Product – RoHS Compliant

# L505-66-60 epoxy lens type Bluish Green color illuminator

L505-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaN diode chips, mounted on a metal stem TO-66 with AlN ceramics and covered with double coated clear silicone and epoxy resin. These devices are designed for high current operation with proper heat sinking to improve thermal conductive efficiency.

## Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 505nm

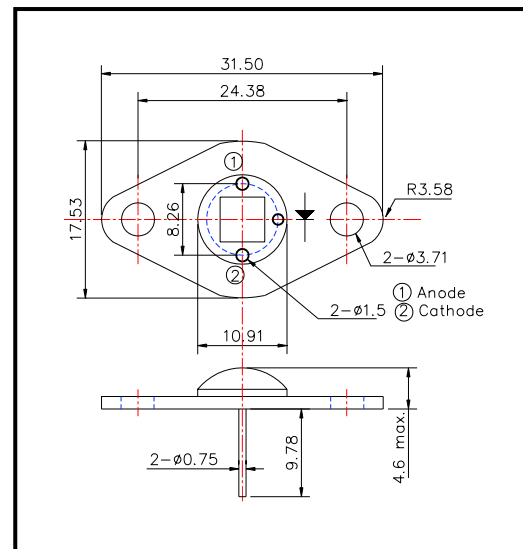
## Applications

- 1) For high intensity lighting source

## Specifications

- |                     |                                |
|---------------------|--------------------------------|
| 1) Product name     | Bluish Green color illuminator |
| 2) Spec. No.        | L505-66-60                     |
| 3) Chip             |                                |
| (1) Material        | InGaN                          |
| (2) Peak wavelength | 505nm                          |
| 4) Package          |                                |
| (1) Stem            | TO-66 stem with AlN            |
| (2) Lens            | Clear silicone and epoxy lens  |

Outer dimension (Unit: mm)



## Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temp.
Power Dissipation	P <sub>D</sub>	7.8	W	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	400	mA	T <sub>a</sub> =25°C
Pulse Forward Current	I <sub>FP</sub>	2000	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	50	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +110	°C	
Soldering Temperature	T <sub>SOL</sub>	240	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=1us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

## Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =240mA		18.5		V
Brightness	I <sub>V</sub>	I <sub>F</sub> =240mA		4500		mcd
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =240mA		60		mW
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> =240mA		10		mW/sr
Reverse Current	V <sub>R</sub>	I <sub>R</sub> =10uA	30			V
Peak Wavelength	I <sub>P</sub>	I <sub>F</sub> =240mA	495	505	515	nm
Half Width	DI	I <sub>F</sub> =240mA		30		nm
Viewing Half Angle	Q <sub>1/2</sub>	I <sub>F</sub> =240mA		±60		deg.

‡Heat sink is required thermal resistance &lt;8K/W