

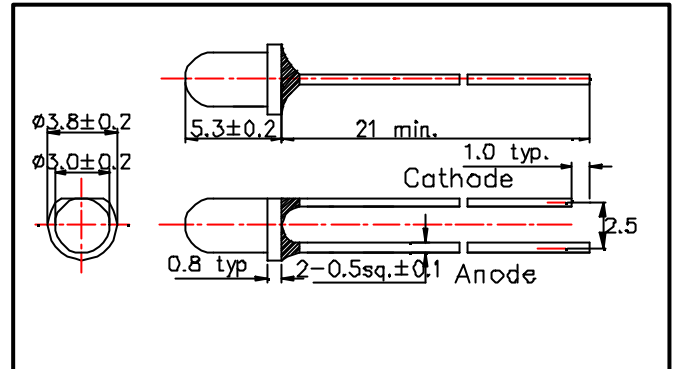
# L505-33U High Bright Bluish Green LED Lamp

L505-33U is an InGaN LED mounted on a lead frame with a clear epoxy lens. On forward bias it emits a band of visible light, which peaks 505nm.

## Specifications

- |                     |                          |
|---------------------|--------------------------|
| 1) Product Name     | Bluish Green LED Lamp    |
| 2) Type No.         | L505-33U                 |
| 3) Chip             |                          |
| (1) Chip Material   | InGaN                    |
| (2) Peak Wavelength | 505nm typ.               |
| 4) Package          |                          |
| (1) Type            | $\phi$ 3mm clear molding |
| (2) Resin Material  | Epoxy Resin              |
| (3) Lead Frame      | Soldered                 |

Outer dimension (Unit: mm)



## Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	120	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	30	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	5	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +85	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	260	°C	

‡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> =20mA		3.5	4.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V			10	uA
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA		1.3		mW
Brightness	I <sub>v</sub>	I <sub>F</sub> =20mA		1000		mcd
Peak Wavelength	$\lambda$ <sub>P</sub>	I <sub>F</sub> =20mA	495	505	515	nm
Half Width	$\Delta\lambda$	I <sub>F</sub> =20mA		30		nm
Viewing Half Angle	$\Theta$ <sub>1/2</sub>	I <sub>F</sub> =20mA		±15		deg.

‡Brightness is measured by Tektronix J-16.

‡Total Radiated Power is measured by Photodyne #500