

L370-30K42 stem type LED with unspherical lens

L370-30K42 is an InGaN LED mounted on TO-46 stem with unspherical glass lens, being designed for sensing devices.

On forward bias it emits a spectral band of radiation, which peaks at 370nm.

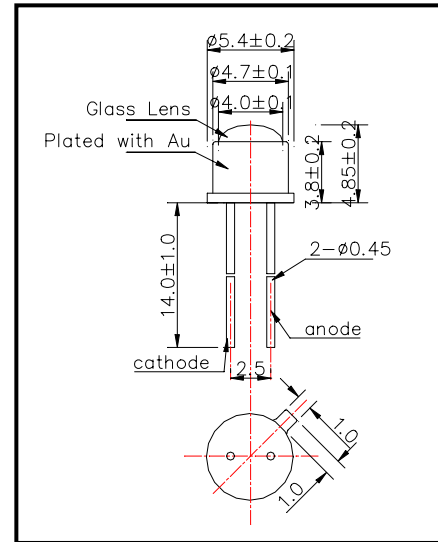
◆ Features

- 1) High Power
- 2) High Reliability

◆ Specifications

- | | |
|---------------------|------------------------|
| 1) Product Name | LED Lamp |
| 2) Type No. | L370-30K42 |
| 3) Chip Spec. | |
| (1) Material | InGaN |
| (2) Peak Wavelength | 370nm |
| 4) Package | |
| (1) type | TO-46 stem |
| (2) Lens | Unspherical Glass Lens |

◆ Outer dimension (Unit:mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	110	mW	Ta=25°C
Forward Current	IF	30	mA	Ta=25°C
Pulse Forward Current	IFP	100	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85	°C	
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature	TSOL	260	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡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	VF	IF=20mA		3.5	4.0	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power	PO	IF=20mA	0.20	0.40		mW
Brightness	IV	IF=20mA		10		mcd
Radiant Intensity	IE	IF=20mA		1.4		mW/sr
Peak Wavelength	λP	IF=20mA	360	370	380	nm
Half Width	Δλ	IF=20mA		20		nm
Viewing Half Angle	θ 1/2	IF=20mA		±6		deg.

‡Radiated Power is measured by Ando Optical Multi Meter AQ2730 & AQ2741

‡Radiant Intensity is measured by Tektronix J-6512.