

## L385-30K42

### Stem Type LED with Unspherical Lens

L385-30K42 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 385nm.

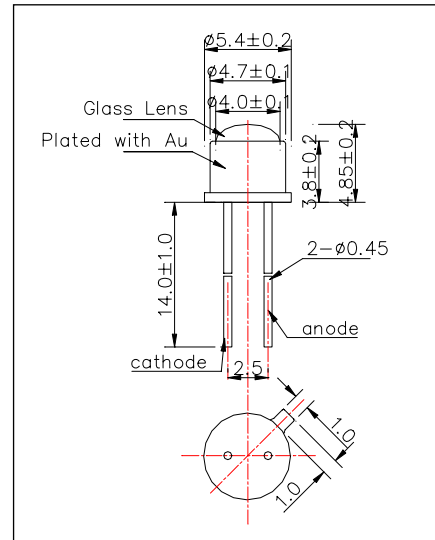
<Features>

- High Power
- High Reliability

<Specifications>

1. Product Name: LED Lamp
2. Type Number: L385-30K42
3. Chip:
  - Chip material: InGaN
  - Peak Wavelength: 385nm
4. Package
  - Stem: TO-46 Stem
  - 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	50	mA	Ta=25°C
Reverse Voltage	VR	3	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85	°C	
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature**	TSOL	250	°C	

\* Duty=1% and Pulse Width=10µs

\*\* Soldering condition must be completed within 3 seconds at 250°C

Electro-Optical Characteristics						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.6	4.3	V
Reverse Current	IR	VR=3V			10	uA
Total Radiated Power*	PO	IF=20mA	0.5	1.0		mW
Brightness	IV	IF=20mA		-		mcd
Radiant Intensity**	IE	IF=20mA	13	26		mW/sr
Peak Wavelength	λP	IF=20mA	375	385	395	nm
Half Width	Δλ	IF=20mA		17		nm
Viewing Half Angle	θ1/2	IF=20mA		±5		deg

\* Measured by Ando Optical Multi Meter AQ2730&AQ2741

\*\* Measured by Tektronix J-6512

