L555GN-35K42N

InGaN LED with Unspherical Lens

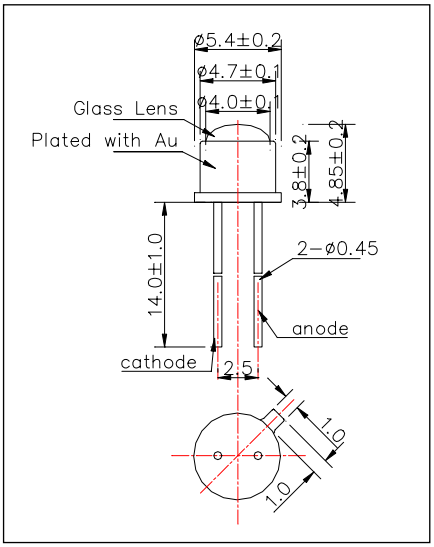
L555GN-35K42N is an InGaN LED mounted on TO-46 stem with unspherical glass lens, being designed for sensing devices.
On forward bias it emits a spectral band of radiation, which peaks at 555nm.

<Features>
- High Power
- Narrow Beam

<Specifications>

1. Product Name: LED Lamp
2. Type Number: L555GN-35K42N
3. Chip:
   - Chip material: InGaN
   - Peak Wavelength: 555nm
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	180	mW	Ta=25℃
Forward Current	IF	50	mA	Ta=25℃
Pulse Forward Current*	IFP	100	mA	Ta=25℃
Reverse Voltage	VR	-	V	Ta=25℃
Operating Temperature	TOPR	-40 ~ +85	℃	
Storage Temperature	TSTG	-40 ~ +100	℃	
Soldering Temperature**	TSOL	265	℃	

* Duty=1% and Pulse Width=10μs
** Soldering condition must be completed within 3 seconds at 265℃

Electro-Optical Characteristics[Ta=25℃]						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA		3.1	3.8	V
Total Radiated Power*	PO	IF=20mA	1.0	2.0		mW
Radiant Intensity**	IE	IF=20mA		15		mW/sr
Peak Wavelength	λP	IF=20mA		555		nm
Half Width	Δλ	IF=20mA		36		nm
Viewing Half Angle	θ1/2	IF=20mA		±4		deg

* Measured by Photodyne #500
** Measured by Tektronix J-6512

RoHS Compliant

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