

## L555-30K42

### Stem Type LED with Unspherical Lens

L555-30K42 is an GaP 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.

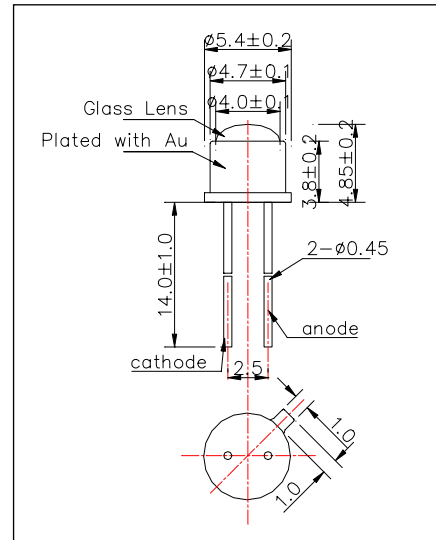
<Features>

- High Power
- High Reliability

<Specifications>

1. Product Name: LED Lamp
2. Type Number: L555-30K42
3. Chip:
  - Chip material: GaP
  - 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     | 130                 | 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   |                     |

\* Duty=1% and Pulse Width=10μs

\*\* Soldering condition must be completed within 3 seconds at 260°C

| Electro-Optical Characteristics[Ta=25°C] |        |           |      |      |      |       |
|--|--------|-----------|------|------|------|-------|
| Item                                     | Symbol | Condition | Min. | Typ. | Max. | Unit  |
| Forward Voltage                          | VF     | IF=20mA   |      | 2.2  | 2.4  | V     |
| Reverse Current                          | IR     | VR=5V     |      |      | 10   | uA    |
| Total Radiated Power*                    | PO     | IF=20mA   |      | 0.01 |      | mW    |
| Radiant Intensity**                      | IE     | IF=20mA   |      | 0.2  |      | mW/sr |
| Peak Wavelength                          | λP     | IF=20mA   | 550  | 555  | 560  | nm    |
| Half Width                               | Δλ     | IF=20mA   |      | 40   |      | nm    |
| Viewing Half Angle                       | θ1/2   | IF=20mA   |      | ±15  |      | deg   |

\* Measured by Photodyne #500

\*\* Measured by Tektronix J-6512

