

L1200-35K32

Stem type LED with high output power

L1200-35K32 is an InGaAsP LED mounted on a TO-46 stem with a spherical glass lens being designed for high output power uses.

On forward bias, it emits a spectral band of radiation, which peaks at 1200nm.

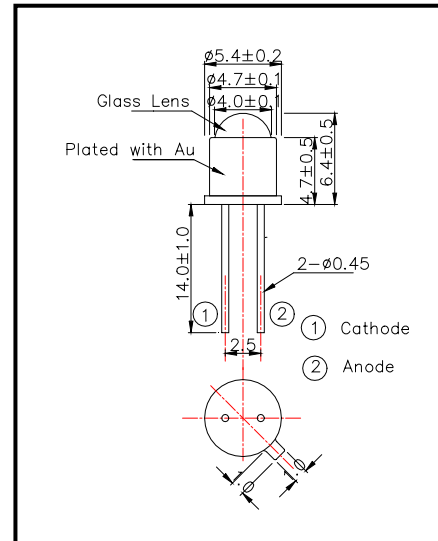
◆ Features

- 1) High radiated intensity
- 2) High Reliability

◆ Specifications

- 1) Product Name NIR LED Lamp
- 2) Type No. L1200-35K32
- 3) Chip Spec.
 - (1) Material InGaAs/InP
 - (2) Peak Wavelength 1200nm
- 4) Package
 - (1) Type TO-46 stem
 - (2) Lens Spherical glass lens
 - (3) Cap Gold plated

◆ Outer dimension (Unit:mm)



◆ Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temperature |
|-----------------------|------------------|---------------------|------|----------------------|
| Power Dissipation | P _D | 120 | mW | T _a =25°C |
| Forward Current | I _F | 100 | mA | T _a =25°C |
| Pulse Forward Current | I _{FP} | 1000 | mA | T _a =25°C |
| Reverse Voltage | V _R | 3 | V | T _a =25°C |
| Operating Temperature | T _{OPR} | -20 ~ +90 | °C | |
| Storage Temperature | T _{STG} | -30 ~ +100 | °C | |
| Soldering Temperature | T _{SOL} | 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 | V _F | I _F =20mA | | 0.8 | 1.3 | V |
| Reverse Current | I _R | V _R =3V | | | 10 | uA |
| Total Radiated Power | P _O | I _F =20mA | 0.5 | 1.1 | | mW |
| Peak Wavelength | λ _P | I _F =20mA | 1150 | 1200 | 1250 | nm |
| Half Width | Δλ | I _F =20mA | | 100 | | nm |
| Viewing Half Angle | θ _{1/2} | I _F =20mA | | ±15 | | deg. |
| Rise Time | t _r | I _F =20mA | | 10 | | ns |
| Fall Time | t _f | I _F =20mA | | 10 | | ns |

‡Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2742