

# L760-40D32-I

 stem type LED with glass ball lens

L760-40D32-I is AlGaAs LED mounted on TO-46 3pins stem with glass ball lens, and electrodes are isolated from case.

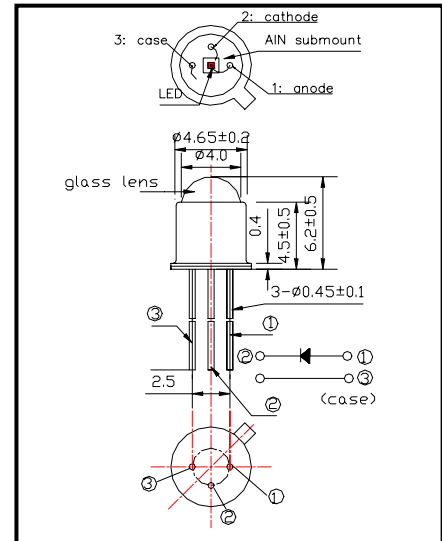
On forward bias it emits a spectral band of radiation, which peaks at 760nm.

### ◆ Features

- 1) High Power
- 2) High Reliability

### ◆ Specifications

- 1) Product Name LED Lamp
- 2) Type No. L760-40D32-I
- 3) Chip Spec.
  - (1) Material AlGaAs
  - (2) Chip dimension 400um\*400um
  - (3) Peak Wavelength 760nm
- 4) Package
  - (1) Type TO-46 3pins Stem
  - (2) Lens Glass Ball Lens
  - (3) Cap Gold plated



### ◆ Absolute Maximum Ratings

| Item                  | Symbol            | Maximum Rated Value | Unit | Ambient Temperature  |
|-----------------------|-------------------|---------------------|------|----------------------|
| Power Dissipation     | P <sub>D</sub>    | 210                 | mW   | T <sub>a</sub> =25°C |
| Forward Current       | I <sub>F</sub>    | 100                 | mA   | T <sub>a</sub> =25°C |
| Pulse Forward Current | I <sub>FP</sub>   | 500                 | mA   | T <sub>a</sub> =25°C |
| Reverse Voltage       | V <sub>R</sub>    | 5                   | V    | T <sub>a</sub> =25°C |
| Thermal Resistance    | R <sub>thja</sub> | 240                 | K/W  |                      |
| Junction Temperature  | T <sub>j</sub>    | 135                 | °C   |                      |
| Operating Temperature | T <sub>OPR</sub>  | -40 ~ +85           | °C   |                      |
| Storage Temperature   | T <sub>STG</sub>  | -40 ~ +100          | °C   |                      |
| Soldering Temperature | T <sub>SOL</sub>  | 265                 | °C   |                      |

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

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

### ◆ Electro-Optical Characteristics

| Item                 | Symbol           | Condition            | Minimum | Typical | Maximum | Unit  |
|----------------------|------------------|----------------------|---------|---------|---------|-------|
| Forward Voltage      | V <sub>F</sub>   | I <sub>F</sub> =50mA |         | 1.85    | 2.10    | V     |
| Reverse Current      | I <sub>R</sub>   | V <sub>R</sub> =5V   |         |         | 10      | uA    |
| Total Radiated Power | P <sub>O</sub>   | I <sub>F</sub> =50mA |         | 14      |         | mW    |
| Radiant Intensity    | I <sub>E</sub>   | I <sub>F</sub> =50mA |         | 38      |         | mW/sr |
| Peak Wavelength      | λ <sub>P</sub>   | I <sub>F</sub> =50mA | 750     | 760     | 770     | nm    |
| Half Width           | Δλ               | I <sub>F</sub> =50mA |         | 30      |         | nm    |
| Viewing Half Angle   | θ <sub>1/2</sub> | I <sub>F</sub> =50mA |         | ±15     |         | deg.  |
| Rise Time            | t <sub>r</sub>   | I <sub>F</sub> =50mA |         | 60      |         | ns    |
| Fall Time            | t <sub>f</sub>   | I <sub>F</sub> =50mA |         | 40      |         | ns    |

‡Radiated Power is measured by S3584-08

‡Radiant Intensity is measured by Tektronix J-6512.