# L660/805/940/PD010-35B52

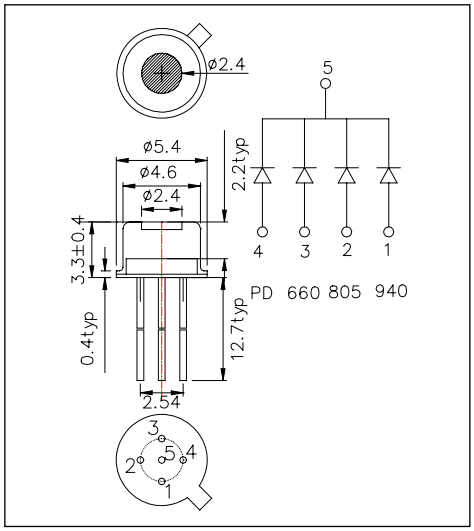
## Multi-Wavelength LED

L660/805/940/PD010-35B52 consists of an AlGaAs(660, 805nm) and GaAs(940nm) LEDs, a Si-PD mounted on TO-18 stem hermetical sealed with a flat glass lens. It is designed to monitor reflected light through detector for controlling its own output power.

<Specifications>

1. Product Name: Multi-Wavelength LED Lamp
2. Type Number: L660/805/940/PD010-35B52
3. Chip:
   - Chip material: AlGaAs, GaAs, Si-PIN-PD
   - Peak Wavelength: 660,805,940nm
4. Package
   - Stem: TO-18 5pin type
   - Lens: Φ2.4 Flat Glass

Outer Dimension (Unit:mm)




| **Absolute Maximum Ratings[Ta=25℃]** | | | | | | |
|---|---|---|---|---|---|---|
| Item | Symbol | Maximum Rated Value | | | | Unit |
| | | 660nm | 805nm | 940nm | PD | |
| Power Dissipation | PD | 120 | 170 | 140 | - | mW |
| Forward Current | IF | 50 | 100 | 100 | - | mA |
| Pulse Forward Current | IFP | 200 | 500 | 1000 | - | mA |
| Reverse Voltage | VR | 5 | | | 100 | V |
| Operating Temperature | TOPR | -30 ~ +85 | | | | ℃ |
| Storage Temperature | TSTG | -30 ~ +100 | | | | ℃ |
| Soldering Temperature* | TSOL | 260 | | | | ℃ |

* Soldering condition must be completed within 3 seconds at 260℃ and is allowed in the area apart 3mm from the bottom of the lamp

| **Electro-Optical Characteristics [Ta=25℃ ]** | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Symbol | Condition | Minimum | | | Typical | | | Maximum | | | | Unit |
| | | | 660 | 805 | 940 | 660 | 805 | 940 | 660 | 805 | 940 | PD | |
| Forward Voltage | VF | IF=20mA | | | | 1.9 | 1.5 | 1.2 | 2.2 | 1.7 | 1.3 | | V |
| Reverse Current | IR | VR=5V | | | | | | | 10 | | | | uA |
| T.Radiated Power* | PO | IF=20mA | | | | 2.9 | 3.5 | 2.5 | | | | | mW |
| Peak wavelength | λP | IF=20mA | 650 | 795 | 935 | 660 | 805 | 940 | 670 | 915 | 955 | | nm |
| Half Width | Δλ | IF=20mA | | | | 20 | 30 | 45 | | | | | nm |
| Output Current | IL | VR=10V | | | | 50 | 130 | 140 | | | | | uA |
| Dark Current | ID | VR=10V | | | | | | | | | | 10 | nA |

* Measured by Photodyne #500

RoHS Compliant