

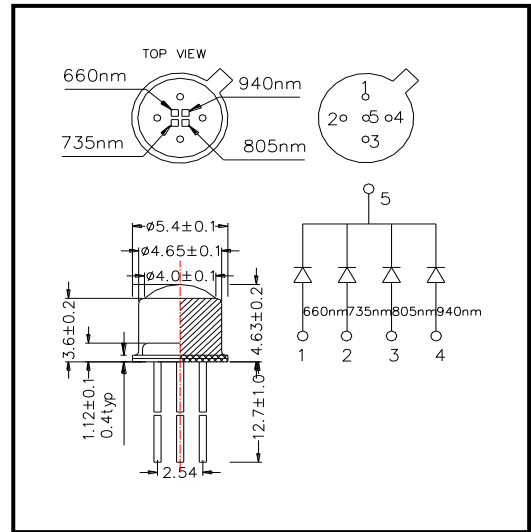
L660/735/805/940-40B42-C-I multi-wavelength LED

◆ Outer dimension (Unit: mm)

L660/735/805/940-40B42-C-I consists of an AlGaAs (660, 735, 805nm) and GaAs(940nm) LEDs mounted on TO-18 5pins type stem with an un-spherical glass lens. Chips are connected as cathode common.

◆ Specifications

- 1) Product Name Multi-wavelength LED Lamp
- 2) Type No. L660/735/805/940-40B32-C-I
- 3) Chip
 - (1) Chip material AlGaAs
 - (2) Peak wavelength 660, 735, 805, 940nm
- 4) Package
 - (1) Stem TO-18 5pin type
 - (2) Lens $\Phi 5$ spherical glass



◆ Absolute Maximum Ratings [Ta=25°C]

| Item | Symbol | Maximum Rated Value | | | | Unit |
|-----------------------|--------|---------------------|-----|-----|------|------|
| | | 660 | 735 | 805 | 940 | |
| Power Dissipation | PD | 120 | 180 | 170 | 140 | mW |
| Forward Current | IF | 50 | 75 | 100 | 100 | mA |
| Pulse Forward Current | IF | 200 | 200 | 300 | 1000 | mA |
| Reverse Voltage | VR | 5 | | | | V |
| Operating Temperature | TOPR | -20 ~ +80 | | | | °C |
| Storage Temperature | TSTG | -30 ~ +100 | | | | °C |
| Soldering Temperature | TSOL | 255 | | | | °C |

‡Soldering condition: Soldering condition must be completed within 3 seconds at 255°C and is allowed in the area apart 3mm from the bottom of the lamp.

◆ Electro-Optical Characteristics [Ta=25°C]

| Item | Symbol | Wavelength | Condition | Minimum | Typical | Maximum | Unit |
|--------------------|-----------------|------------|-----------|---------|---------|---------|-------|
| Forward Voltage | VF | 660 | IF=20mA | | | 1.9 | V |
| | | 735 | | | | | |
| | | 805 | | | | | |
| | | 940 | | | | | |
| Reverse Current | IR | | VR=5V | | | 10 | u A |
| | | | | | | | |
| Total Output Power | PO | 660 | IF=20mA | | | 2.9 | mW |
| | | 735 | | | | | |
| | | 805 | | | | | |
| | | 940 | | | | | |
| Radiant Intensity | Ie | 660 | IF=20mA | | | | mW/sr |
| | | 735 | | | | | |
| | | 805 | | | | | |
| | | 940 | | | | | |
| Peak Wavelength | λ_P | 660 | IF=20mA | | | 650 | nm |
| | | 735 | | | | | |
| | | 805 | | | | | |
| | | 940 | | | | | |
| Half Wavelength | $\Delta\lambda$ | 660 | IF=20mA | | | 20 | nm |
| | | 735 | | | | | |
| | | 805 | | | | | |
| | | 940 | | | | | |

‡Total Radiated Power is measured by Photodyne #500