

## L760/940-04A

### Bi-Color LED for Medical Analysis

L760/940-04A consists of DDH AlGaAs and GaAs LEDs mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light which peaks 760nm and 940nm at anode common.

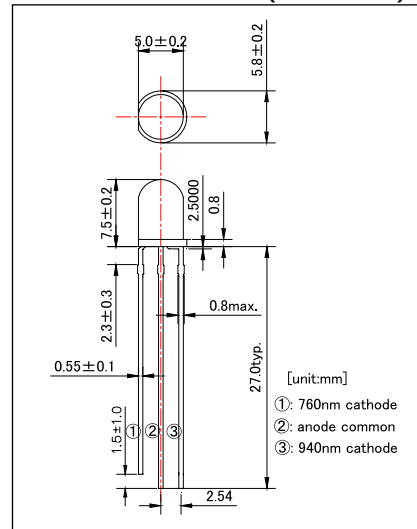
**<Features>**

- High Reliability
- High Power
- Anode Common

**<Specifications>**

1. Product Name: Bi-Color LED
2. Type Number: L760/940-04A
3. Chip:
  - Chip material: AlGaAs(DDH structure)
  - Peak Wavelength: 760nm/940nm
4. Package
  - Type:  $\Phi$ 5mm clear molding
  - Resin Material: Epoxy Resin
  - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



| Absolute Maximum Ratings |        |                     |       |      |               |
|--------------------------|--------|---------------------|-------|------|---------------|
| Item                     | Symbol | Maximum Rated Value |       | Unit | Ambient Temp. |
|                          |        | 760nm               | 940nm |      |               |
| Power Dissipation        | PD     | 200                 | 140   | mW   | Ta=25°C       |
| Forward Current          | IF     | 100                 |       | mA   | Ta=25°C       |
| Reverse Voltage          | VR     | 10                  |       | V    | Ta=25°C       |
| Operating Temperature    | TOPR   | -30 ~ +85           |       | °C   |               |
| Storage Temperature      | TSTG   | -30 ~ +100          |       | °C   |               |
| Soldering Temperature*   | TSOL   | 260                 |       | °C   |               |

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

| Electro-Optical Characteristics [Ta=25°C ] |                 |           |         |     |         |     |         |      |      |
|--|-----------------|-----------|---------|-----|---------|-----|---------|------|------|
| Item                                       | Symbol          | Condition | Minimum |     | Typical |     | Maximum |      | Unit |
|  |                 |           | 760     | 940 | 760     | 940 | 760     | 940  |      |
| Forward Voltage                            | VF              | IF=50mA   |         |     | 1.85    | 1.3 | 2.0     | 1.45 | V    |
| Reverse Current                            | IR              | VR=5V     |         |     |         |     | 10      |      | uA   |
| Total Radiated Power*                      | PO              | IF=50mA   | 8       | 8   | 15      | 14  |         |      | mW   |
| Peak wavelength                            | $\lambda$ P     | IF=50mA   | 740     | 930 | 760     | 940 | 780     | 960  | nm   |
| Half Width                                 | $\Delta\lambda$ | IF=50mA   |         |     | 30      | 50  |         |      | nm   |
| Viewing Half Angle                         | $\theta$ 1/2    | IF=50mA   |         |     | ±20     |     |         |      | deg  |

\* Measured by Photodyne #500

