

## L750/850-04A Bi-Color LED for medical analysis

Bi-color LED of L750/850-04A consists of DDH structure AlGaAs LEDs mounted on a lead frame with a clear epoxy lens.

On forward bias it emits a band of visible light, which peaks 750nm and 850nm by anode common.

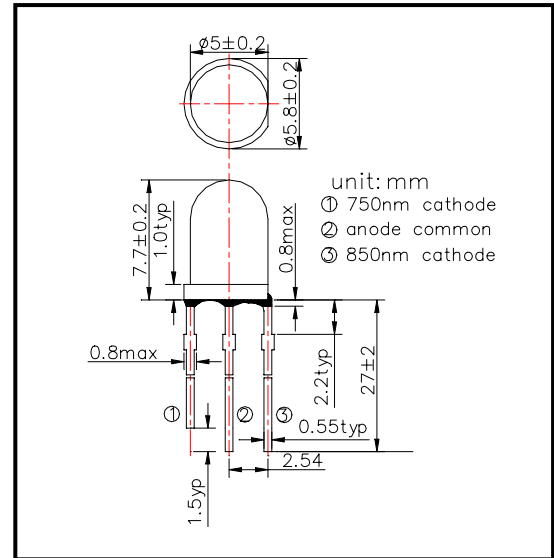
### ◆ Features

- 1) High Reliability
- 2) High Power
- 3) Anode Common

### ◆ Specifications

- |                     |                        |
|---------------------|------------------------|
| 1) Product Name     | Bi-color LED           |
| 2) Type No.         | L750/850-04A           |
| 3) Chip             |                        |
| (1) Chip Material   | AlGaAs (DDH structure) |
| (2) Peak Wavelength | 750nm and 850nm typ.   |
| 4) Package          |                        |
| (1) Type            | Φ5mm clear molding     |
| (2) Resin Material  | Epoxy Resin            |
| (3) Lead Frame      | Soldered               |

### ◆ Outer dimension (Unit: mm)



### ◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value		Unit	Ambient Temperature
		750nm	850nm		
Power Dissipation	PD	200	160	mW	Ta=25°C
Forward Current	IF	100		mA	Ta=25°C
Reverse Voltage	IR	10		V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85		°C	
Storage Temperature	TSTG	-30 ~ +100		°C	
Soldering Temperature	TSOL	260		°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

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

Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			750nm	850nm	750nm	850nm	750nm	850nm	
Forward Voltage	VF	IF=50mA			1.85	1.55	2.00	1.70	V
Reverse Current	IR	VR=5V					10		uA
Total Radiated Power	PO	IF=50mA	8.0	12.0	15.0	18.0			mW
Peak Wavelength	λP	IF=50mA	730	830	750	850	770	870	nm
Half Width	Δλ	IF=50mA			30	35			nm
Viewing Half Angle	θ 1/2	IF=50mA			±20				deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512