

L760/850-04A Bi-Color LED for medical analysis

Bi-color LED of L760/850-04A 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 760nm and 850nm by anode common.

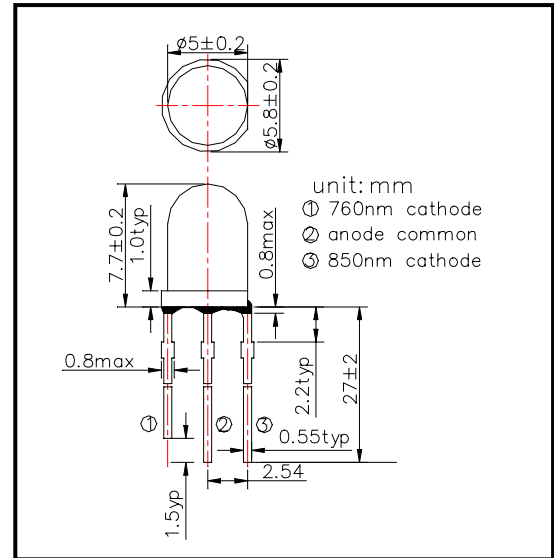
◆ Features

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

◆ Specifications

- | | |
|---------------------|------------------------|
| 1) Product Name | Bi-color LED |
| 2) Type No. | L760/850-04A |
| 3) Chip | |
| (1) Chip Material | AlGaAs (DDH structure) |
| (2) Peak Wavelength | 760nm 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
		760nm	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
			760nm	850nm	760nm	850nm	760nm	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	740	830	760	850	780	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