

L760/840-05A Bi-Color LED for medical analysis

Bi-color LED of L760/840-05A 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 840nm at anode common.

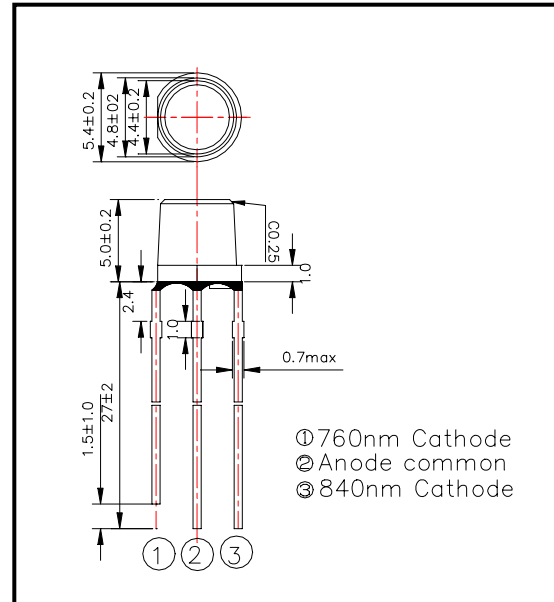
◆ Features

- 1) High Reliability
- 2) High Power
- 3) Anode Common
- 4) Second emission free

◆ Specifications

- 1) Product Name Bi-color LED
- 2) Type No. L760/840-05A
- 3) Chip
- (1) Chip Material AlGaAs (DDH structure)
- (2) Peak Wavelength 760nm and 840nm typ.
- 4) Package
- (1) Type Φ 5mm 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	840nm		
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	840nm	760nm	840nm	760nm	840nm	
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	6.0	10.0	15.0	18.0			mW
Peak Wavelength	λ_P	IF=50mA	740	820	760	840	780	860	nm
Half Width	$\Delta\lambda$	IF=50mA			30	35			nm
Viewing Half Angle	$\theta_{1/2}$	IF=50mA			±40				deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512

Marubeni America Corporation

3945 Freedom Circle, Suite 1000, Santa Clara, CA 95054

408-330-0650 (Ext. 323), 408-330-0655 (Fax), sales@tech-led.com