

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.

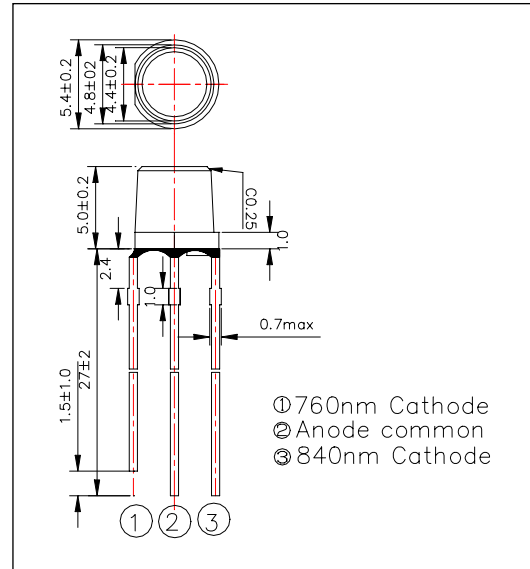
<Features>

- High Reliability
- High Power
- Anode Common
- Second Emission Free

<Specifications>

1. Product Name: Bi-color LED
2. Type Number: L760/840-05A
3. Chip:
 - Chip material: AlGaAs(DDH structure)
 - Peak Wavelength: 760nm and 840nm typ.
4. Package
 - Type: Φ 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 Temperature
		760nm	840nm		
Power Dissipation	PD	200	160	mW	Ta=25°C
Forward Current	IF	75		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
			760	840	760	840	760	840	
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	θ 1/2	IF=50mA			±40				Deg.

Total Radiated Power is measured by Photodyne #500.
 Radiant Intensity is measured by Tektronix J-6512

