

L635/760-04A

Bi-Color LED for Medical Analysis

Bi-color LED of L635/760-04A 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 635nm and 760nm at anode common.

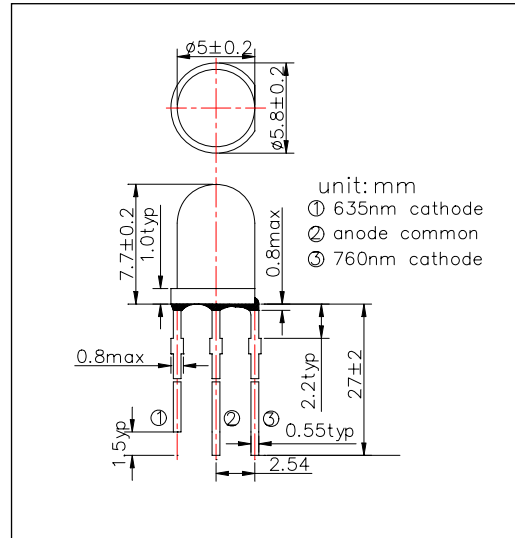
<Features>

- High Reliability
- High Power
- Anode Common

<Specifications>

1. Product Name: Bi-color LED
2. Type Number: L635/760-04A
3. Chip:
 - Chip material: AlGaAs(DDH structure)
 - Peak Wavelength: 635nm and 760nm 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
		635nm	760nm		
Power Dissipation	PD	100	200	mW	Ta=25°C
Forward Current	IF	50	100	mA	Ta=25°C
Reverse Voltage	IR	5		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
			635	760	635	760	635	760	
Forward Voltage	VF	IF=20mA			2.10	1.65	2.30	2.00	V
Reverse Current	IR	VR=5V					10		uA
Total Radiated Power	PO	IF=20mA	0.7	2.0	1.5	4.0	2.5	8.0	mW
Peak Wavelength	λ P	IF=20mA	630	750	635	760	640	770	nm
Half Width	$\Delta\lambda$	IF=20mA			20	30			nm
Viewing Half Angle	θ 1/2	IF=20mA			± 20				Deg.

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

