

**L660/940-04A**

Bi-Color LED for Medical Analysis

Bi-color LED of L660/940-04A consists of DDH AlGaAs and GaAs mounted on a lead frame with a clear epoxy lens.

On forward bias it emits a band of visible light which peaks 660nm and 940nm at anode common.

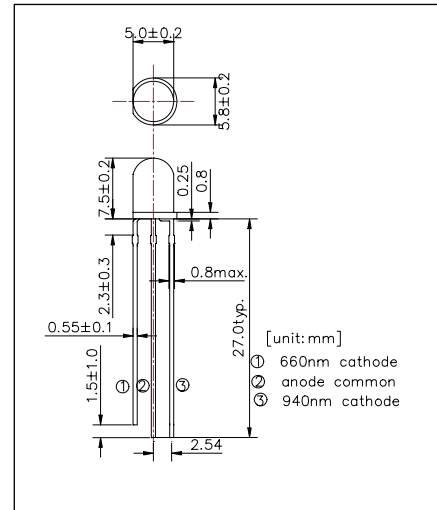
<Features>

- High Reliability
- High Power
- Anode Common

<Specifications>

1. Product Name: Bi-color LED
2. Type Number: L660/940-04A
3. Chip:
  - Chip material: AlGaAs(DDH structure)
  - Peak Wavelength: 660nm and 940nm typ.
4. Package
  - Type:  $\Phi$ 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
		660nm	940nm		
Power Dissipation	PD	75	140	mW	Ta=25°C
Forward Current	IF	30	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
			660	940	660	940	660	940	
Forward Voltage	VF	IF=20mA			1.90	1.20	2.20	1.40	V
Reverse Current	IR	VR=5V					10		uA
Total Radiated Power	PO	IF=20mA	2.5	3.0	4.5	5.0	6.5	7.5	mW
Peak Wavelength	$\lambda$ P	IF=20mA	650	930	660	940	670	960	nm
Half Width	$\Delta\lambda$	IF=20mA			20	50			nm
Viewing Half Angle	$\theta$ 1/2	IF=20mA			$\pm 20$				Deg.

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

