

L660/910-04A Bi-Color LED for medical analysis

Bi-color LED of L660/910-04A consists of AlGaAs mounted on a lead frame with a clear epoxy lens. On forward bias it emits a band of visible light, which peaks 660nm and 910nm at anode common.

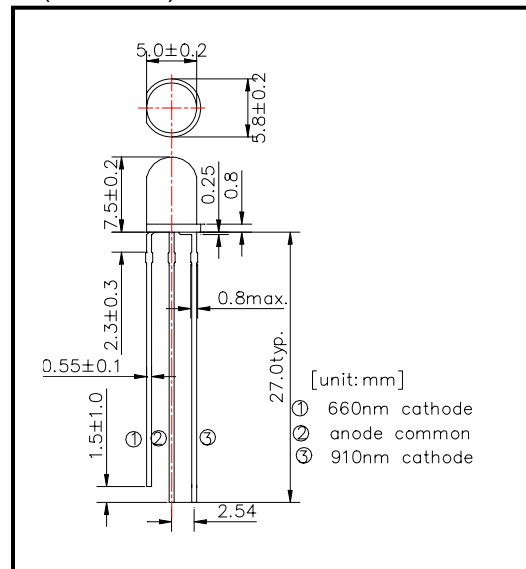
◆ Features

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

◆ Specifications

- 1) Product Name Bi-color LED
- 2) Type No. L660/910-04A
- 3) Chip
 - (1) Chip Material AlGaAs (sub-peak free)
 - (2) Peak Wavelength 660nm and 910nm typ.
- 4) Package
 - (1) Type $\Phi 5\text{mm}$ 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
		660nm	910nm		
Power Dissipation	PD	75	160	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
			660nm	910nm	660nm	910nm	660nm	910nm	
Forward Voltage	VF	IF=20mA			1.90	1.30	2.20	1.50	V
Reverse Current	IR	VR=5V					10		uA
Total Radiated Power	PO	IF=20mA	2.5	1.5	4.5	2.5			mW
Peak Wavelength	λ_P	IF=20mA	650	900	660	910	670	930	nm
Half Width	$\Delta\lambda$	IF=20mA			20	60			nm
Viewing Half Angle	$\theta_{1/2}$	IF=20mA			±20				deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512