

L660/940-04A Bi-Color LED for medical analysis

Bi-color LED of L660/940-04A consists of DDH AlGaAs and GaAs LEDs 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.

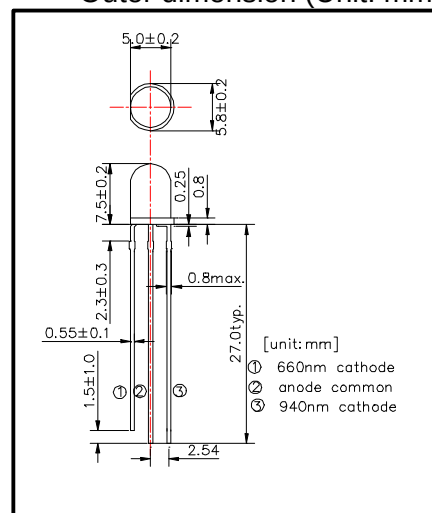
Features

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

Specifications

- 1) Product Name Bi-color LED
- 2) Type No. L660/940-04A
- 3) Chip
 - (1) Chip Material AlGaAs (DDH structure)
 - (2) Peak Wavelength 660nm and 940nm typ.
- 4) Package
 - (1) Type f5mm 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	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
			660nm	940nm	660nm	940nm	660nm	940nm	
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	λP	IF=20mA	650	930	660	940	670	960	nm
Half Width	Δλ	IF=20mA			20	50			nm
Viewing Half Angle	Q1/2	IF=20mA			±20				deg.

‡ Total Radiated Power is measured by Photodyne #500

‡ Radiant Intensity is measured by Tektronix J-6512

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