Marubeni

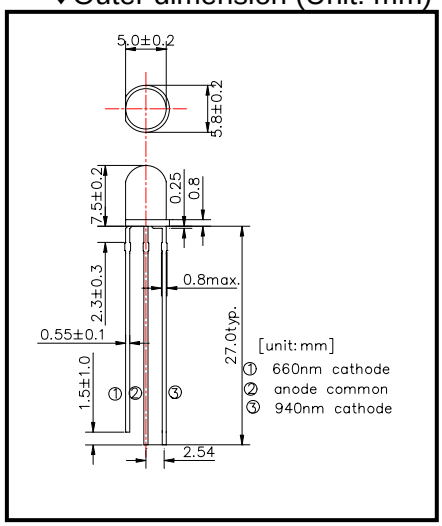
L660/940-04A Bi-Color LED for medical analysis

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

♦Outer dimension (Unit: mm)



♦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	Φ5mm clear molding
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered

♦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=10V					10		uA
Total Radiated Power	PO	IF=20mA	2.5	3.0	4.5	5.0	6.5	7.5	mW
Peak Wavelength	λ_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			±20				deg.

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

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