LED660N/940-04A Bi-Color LED for medical analysis

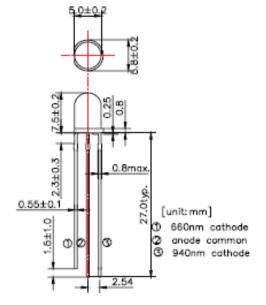
LED660N/940-04A consists of DDH AlGaAs and GaAs LEDs mounted on a lead frame with a clear epoxy lens. On forward bias it emits a band of visible light, which peaks at 660 nm and 940 nm with common anode.

High Reliability High Power Common Anode

Specifications

Product Name	Bi-color LED
Type No.	LED660N/940-04A
Chip Material	AlGaAs (DDH structure)

Peak wavelength 660 nm and 940 nm Type 5 mm clear molding Resin material epoxy Soldered lead frame



Absolute Maximum Ratings

Item	Symbol	Maximum Value 660		Unit	Ambient Temperature	
Power Dissipation	PD	120	140	mW	Ta=25°C	
Forward Current	lF	50	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]

ltem Sym	Symbol	Condition	Minimum		Typical		Maximum		Unit
	Symbol	Condition	660nm	940nm	660nm	940nm	660nm	940nm	
Forward Voltage	VF	lF=20mA			2.1	1.20	2.3	1.40	V
Reverse Current	R	VR=5V				10		uA	
Total Radiated Power	PO	lF=20mA	8.0	3.0	15	5.0		7.5	mW
Peak Wavelength	λp	lF=20mA	650	930	660	940	670	960	nm
Half Width	Δλ	lF=20mA			18	50			nm
Viewing Half Angle	9 1/2	l F=20m A			±ź	20			deg.

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

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