

LED760/840-05A Bi-Color LED for medical analysis

LED760/840-05A consists of DDH structure AlGaAs LEDs mounted on a lead frame with a clear epoxy lens. On forward bias it emits a band of visible light, which peaks at 760 nm and 840 nm with common anode.

Features

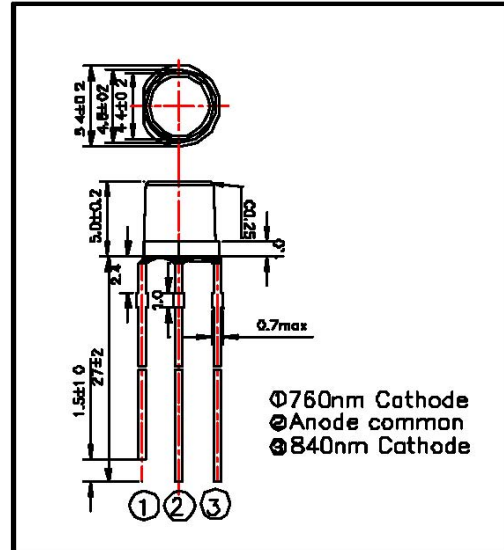
High Reliability
High Power
Common Anode
Second emission free

Specifications

Product Name Bi-color LED
Type No. L760/840-05A
Chip Material AlGaAs (DDH structure)

Peak wavelength at 760 nm and 840 nm
5mm clear epoxy
Epoxy resin material
Soldered lead frame

outer dimension (unit: mm)



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value		Unit	Ambient Temperature
		760nm	840nm		
Power Dissipation	PD	200	160	mW	Ta=25°C
Forward Current	IF	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
			760nm	840nm	760nm	840nm	760nm	840nm	
Forward Voltage	VF	IF=50mA			1.85	1.55	2.00	1.70	V
Reverse Current	IR	VR=5V					10		uA
Total Radiated Power	PO	IF=50mA	6.0	10.0	15.0	18.0			mW
Peak Wavelength	λ_P	IF=50mA	740	820	760	840	780	860	nm
Half Width	$\Delta\lambda$	IF=50mA			30	35			nm
Viewing Half Angle	$\Theta_{1/2}$	IF=50mA			±40				deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512

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