

L770/805/870-40B59-I

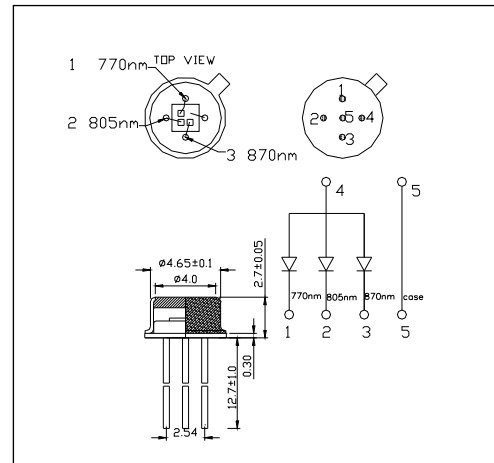
Multi-Wavelength LED

This product consists of AlGaAs(770,805,870nm) LED mounted on TO-46 stem with a glass flat lens. These three chips are isolated from metal stem and are connected as anode common. Their wavelength have no sub-peak for sensor use.

Outer Dimension (Unit:mm)

<Specifications>

- Product Name: Multi-Wavelength LED Lamp
- Type Number: L770/805/870-40B59-I
- Chip:
 - Chip material: AlGaAs
 - Dimension: 400um
 - Peak Wavelength: 770,805,870nm
- Package:
 - Stem: TO-46, 5pins type
 - Lens: Φ5mm Glass Flat Lens - Φ4mm aperture
 - Pins: Anode common and Case ground



Absolute Maximum Ratings[Ta=25°C]					
Item	Symbol	Maximum Rated Value			Unit
		770	805	870	
Power Dissipation	PD	200	170	165	mW
Forward Current	IF	100	100	100	mA
Pulse Forward Current*	IFP	500	500	500	mA
Reverse Voltage	VR	5			V
Operating Temperature	TOPR	-20 ~ +80			°C
Storage Temperature	TSTG	-30 ~ +100			°C
Soldering Temperature**	TSOL	265			°C

* Duty=1% and tw=10μs

** Soldering condition must be completed within 3 seconds at 265°C

Electro-Optical Characteristics [Ta=25°C]												
Item	Symbol	Condition	Minimum			Typical			Maximum			Unit
			770	805	870	770	805	870	770	805	870	
Forward Voltage	VF	IF=50mA				1.70	1.60	1.50	2.0	2.1	1.7	V
Reverse Current	IR	VR=5V							10			uA
T. Radiated Power*	PO	IF=50mA	6.0	6.0		11.0	10.0	10.0				mW
Radiant Intensity	IE	IF=50mA				6.0	5.5	6.0				mW/sr
Peak Wavelength	λP	IF=50mA	765	800	865	770	805	870	775	810	875	nm
Half Width	Δλ	IF=50mA				28	34	40				nm
View Half Angle	θ1/2	IF=50mA				±55						deg

* Measured by Photodyne #500

