

PRELIMINARY

Lead (Pb) Free Product – RoHS Compliant

L505/630-02 Bi-Color LED

Bi-color LED of L505/630-02 consists of InGaN and InGaAlP LEDs mounted on a lead frame with a clear epoxy lens.

On forward bias it emits a band of visible light, which peaks 505nm and 630nm at cathode common.

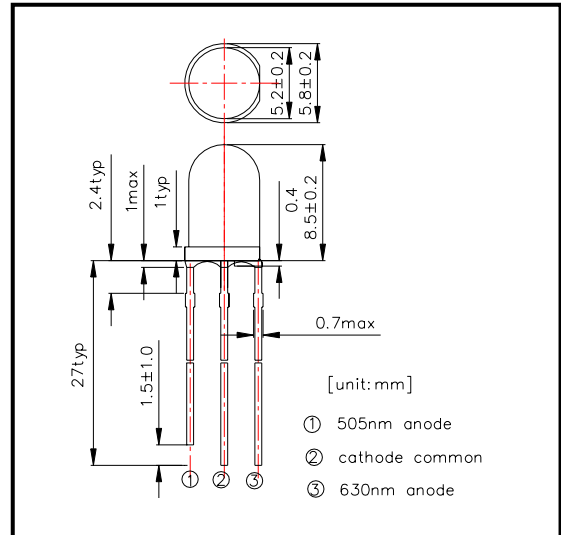
◆ Features

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

◆ Specifications

- 1) Product Name Bi-color LED
- 2) Type No. L505/630-02
- 3) Chip
 - (1) Chip Material AnGaN/InGaAlP
 - (2) Peak Wavelength 505nm and 630nm typ.
- 4) Package
 - (1) Type Φ 5mm 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
		505nm	630nm		
Power Dissipation	PD	120	120	mW	Ta=25°C
Forward Current	IF	30	50	mA	Ta=25°C
Reverse Voltage	IR	5		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
			505nm	630nm	505nm	630nm	505nm	630nm	
Forward Voltage	VF	IF=20mA			3.5	2.0	4.3	2.3	V
Reverse Current	IR	VR=5V							uA
Total Radiated Power	PO	IF=20mA	0.7	1.3	1.3	2.5			mW
Peak Wavelength	λ_P	IF=20mA	495	620	505	630	515	640	nm
Half Width	$\Delta\lambda$	IF=20mA			30	20			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