

L505/630-02 Bi-Color LED

Bi-color LED of L505/630-02 consists of InGaN and InGaAIP 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.

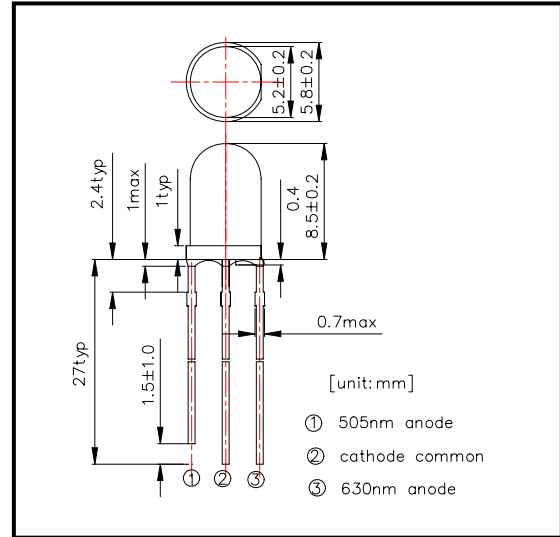
<Features>

- High Reliability
- High Power
- Cathode Common

<Specifications>

1. Product Name: Bi-color LED
2. Type Number: L505/630-02
3. Chip:
 - Chip material: AnGaN and InGaAIP
 - Peak Wavelength: 505nm and 630nm typ.
4. Package
 - Type: Φ 5mm clear molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Soldered(Lead Free)

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
			505	630	505	630	505	630	
Forward Voltage	VF	IF=20mA			3.5	2.0	4.3	2.3	V
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	θ 1/2	IF=20mA			±20				Deg.

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

