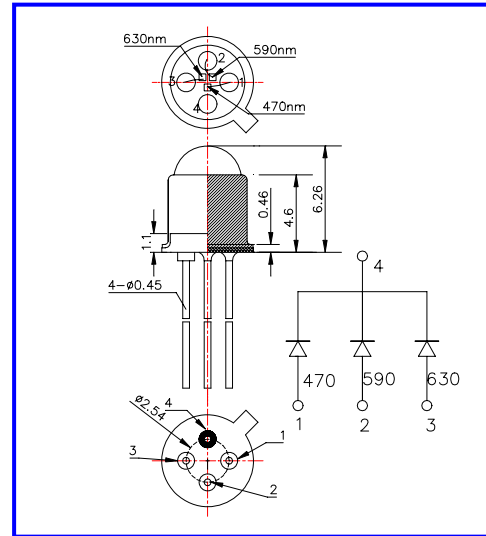


L470/590/630-30C32 multi-wavelength LED

L470/590/630-30C32 consists of an InGaN (470nm), And InGaAsP (590nm,630nm) LED mounted on TO-18 4pins type stem with a glass ball lens. Chips are connected as cathode common.

◆Outer dimension (Unit: mm)



◆ Specifications

- | | |
|---------------------|---------------------------|
| 1) Product Name | Multi-wavelength LED Lamp |
| 2) Type No. | L470/590/630-30C32 |
| 3) Chip | |
| (1) Chip material | InGaN, InGaAsP |
| (2) Peak wavelength | 470, 595, 635nm |
| 4) Package | |
| (1) Stem | TO-18 4pin type |
| (2) Lens | Φ5 spherical glass |

◆ Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value			Unit
		470	590	630	
Power Dissipation	PD	120	130	140	mW
Forward Current	IF	30	40	50	mA
Reverse Voltage	VR	5			V
Operating Temperature	TOPR	-20 ~ +80			°C
Storage Temperature	TSTG	-30 ~ +100			°C
Soldering Temperature	TSOL	240			°C

‡Soldering condition: Soldering condition must be completed within 3 seconds at 240°C and is allowed in the area apart 3mm from the bottom of the lamp.

◆ Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Wavelength	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	470	IF=20mA		3.80	4.30	V
		590		2.10	2.40		
		630		2.20	2.60		
Reverse Current	IR		VR=5V			10	uA
Total Output Power	PO	470	IF=20mA	0.30	0.50		mW
		590		0.40	0.80		
		630		1.50	3.00		
Peak Wavelength	λP	470	IF=20mA	460	470	480	nm
		590		585	595	605	
		630		625	635	645	
Half Wavelength	Δλ	470	IF=20mA		25		nm
		590			15		
		630			15		

‡Total Radiated Power is measured by Photodyne #500