

L7x370-30P96

Multi dies LED with flat glass lens

L7x370-30P96 is seven pieces of InGaN dies mounted on TO-39 stem with ball glass lens. On forward bias it emits a spectral band of radiation, which peaks at 370nm.

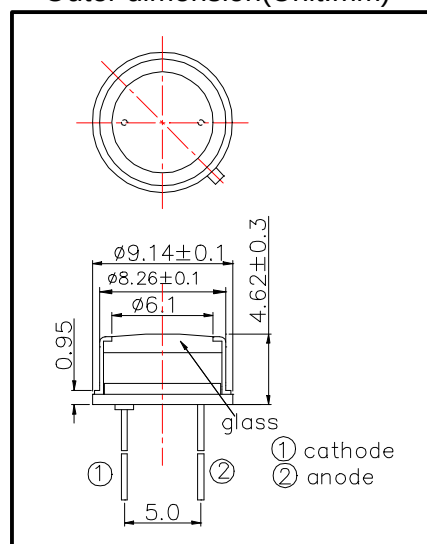
Outer dimension(Unit:mm)

Features

- 1) High Power
- 2) High Reliability

Specifications

- 1) Product Name LED Lamp
- 2) Type No. L7x370-30P96
- 3) Chip Spec.
 - (1) Material InGaN
 - (2) Peak Wavelength 370nm
- 4) Package
 - (1) Type TO-39 stem
 - (2) Lens Flat Glass Lens



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	110	mW	$T_a=25^{\circ}\text{C}$
Forward Current	I_F	200	mA	$T_a=25^{\circ}\text{C}$
Pulse Forward Current	I_{FP}		mA	$T_a=25^{\circ}\text{C}$
Reverse Voltage	V_R	3	V	$T_a=25^{\circ}\text{C}$
Operating Temperature	T_{OPR}	$-30 \sim +85$	$^{\circ}\text{C}$	
Storage Temperature	T_{STG}	$-30 \sim +100$	$^{\circ}\text{C}$	
Soldering Temperature	T_{SOL}	260	$^{\circ}\text{C}$	

‡ Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡ Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	$I_F=100\text{mA}$		3.4	4.0	V
Reverse Current	I_R	$V_R=3\text{V}$			10	μA
Total Radiated Power	P_O	$I_F=100\text{mA}$		1.2		mW
Brightness	I_V	$I_F=100\text{mA}$				mcd
Radiant Intensity	I_E	$I_F=100\text{mA}$				mW/sr
Peak Wavelength	λ_P	$I_F=100\text{mA}$	360	370	380	nm
Half Width	$\Delta\lambda$	$I_F=100\text{mA}$		20		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=100\text{mA}$		$\pm$		deg.

‡ Radiated Power is measured by Ando Optical Multi Meter AQ2730 & AQ2741

‡ Radiant Intensity is measured by Tektronix J-6512.

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