

L470-33V Super Bright Blue LED

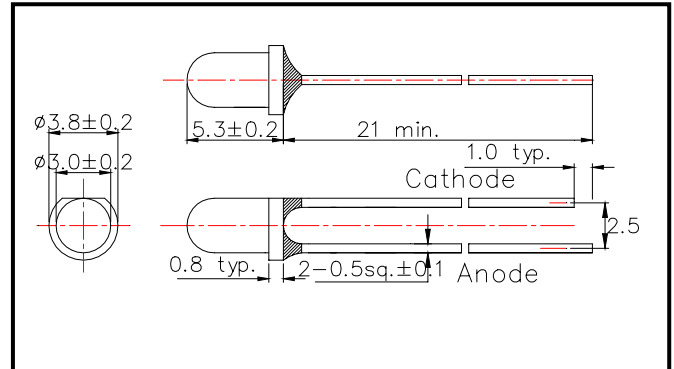
L470-33V is an InGaN LED mounted on a lead frame with a clear epoxy lens.

On forward bias, it emits a band of visible light, which peaks 470nm.

◆ Specifications

1) Product Name	Blue LED Lamp
2) Type No.	L470-33V
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	470nm typ.
4) Package	
(1) Type	Φ3mm 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
Power Dissipation	P_D	120	mW	$T_a=25^\circ\text{C}$
Forward Current	I_F	30	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	V_R	5	V	$T_a=25^\circ\text{C}$
Operating Temperature	T_{OPR}	-30 ~ +85	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	T_{SOL}	260	$^\circ\text{C}$	

‡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	$I_F=20\text{mA}$		3.8	4.3	V
Reverse Current	I_R	$V_R=5\text{V}$			10	μA
Total Radiated Power	P_O	$I_F=20\text{mA}$		5.0		mW
Brightness	I_V	$I_F=20\text{mA}$		1000		mcd
Peak Wavelength	λ_P	$I_F=20\text{mA}$	460	470	480	nm
Half Width	$\Delta\lambda$	$I_F=20\text{mA}$		25		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$		± 18		deg.

‡Brightness is measured by Tektronix J-16.

‡Total Radiated Power is measured by Photodyne #500