

L470-06

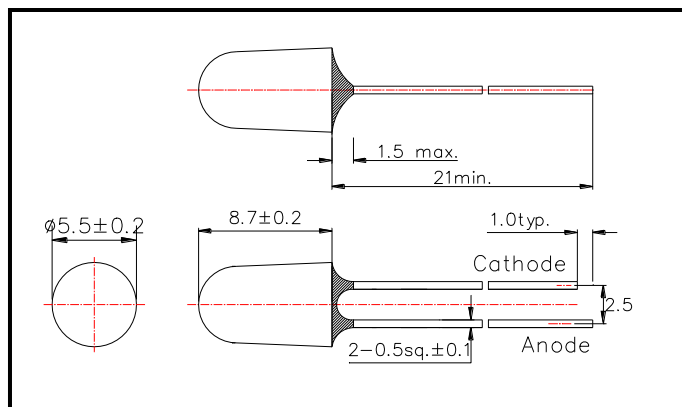
Super Bright Blue LED

L470-06 is an InGaN LED mounted on a lead frame with a clear epoxy lens. This is designed for narrow viewing angle as $\pm 2^\circ$ in typical. On forward bias, it emits a band of visible light, which peaks 470nm.

◆ Specifications

- 1) Product Name Blue LED Lamp
- 2) Type No. L470-06
- 3) Chip
- (1) Chip Material InGaN
- (2) Peak Wavelength 470nm typ.
- 4) Package
- (1) Type Φ5mm clear molding
- (2) Resin Material Epoxy Resin
- (3) Lead Frame Soldered(lead free)

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	200	mW	$T_a=25^\circ\text{C}$
Forward Current	I_F	50	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	V_R	5	V	$T_a=25^\circ\text{C}$
Junction Temperature	T_J	100	$^\circ\text{C}$	
Thermal Resistance	R_{thja}	340	K/W	
Operating Temperature	T_{OPR}	-30 ~ +85	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	T_{SOL}	265	$^\circ\text{C}$	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C
 ‡Thermal resistance: junction – ambient, leads 7mm, soldered on PCB.

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$		3.2	4.3	V
Reverse Current	I_R	$V_R=5\text{V}$			10	μA
Total Radiated Power	P_O	$I_F=20\text{mA}$		10.0		mW
Brightness	I_v	$I_F=20\text{mA}$		10,000		mcd
Peak Wavelength	λ_P	$I_F=20\text{mA}$	460	470	480	nm
Half Width	$\Delta\lambda$	$I_F=20\text{mA}$		20		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$		± 2		deg.

‡Brightness is measured by Tektronix J-16.
 ‡Total Radiated Power is measured by Photodyne #500

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