

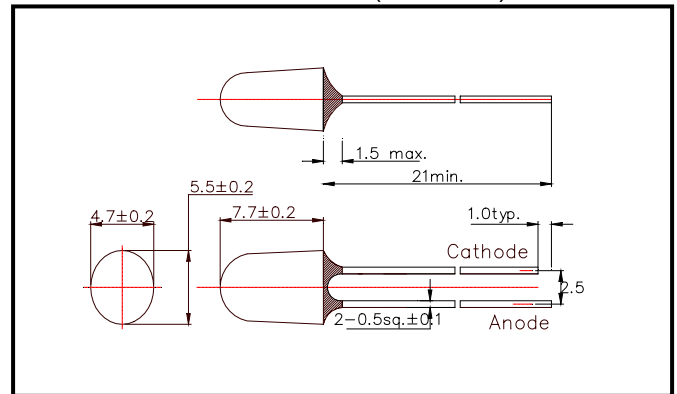
L450-09U Blue LED Lamp

L450-09U 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 450nm.

◆ Specifications

1) Product Name	Blue LED Lamp
2) Type No.	L450-09U
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	450nm typ.
4) Package	
(1) Type	φ5mm 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°C
Forward Current	I _F	30	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°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 =20mA		3.8	4.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		1.3		mW
Brightness	I _v	I _F =20mA		150		mcd
Peak Wavelength	λ _P	I _F =20mA	440	450	460	nm
Half Width	Δλ	I _F =20mA		50		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±20		deg.
				±13		

‡Brightness is measured by Tektronix J-16.

‡Radiant Intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741