L450-01U Blue LED

L450-01U 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

Type No. L450-01U

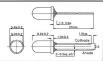
Chip
Chip Material

(1) Chip Material InGaN (2) Peak Wavelength 450nm typ.

Peak vvavelengtn 45unm typ
Package

(1) Type Ф5mm 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 Ta=25°C	
Power Dissipation	Po	120	mW		
Forward Current	lF.	30	mA	Ta=25°C	
Reverse Voltage	VR	5	V	Ta=25°C	
Operating Temperature	TOPR	-30 ~ +85	°C		
Storage Temperature	Tsrg	-30 ~ +100	°C		
Soldering Temperature	TsoL	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	VF	Ir=20mA		3.8	4.3	V
Reverse Current	İR	VR=5V			10	uA
Total Radiated Power	Po	Ir=20mA		1.3		mW
Brightness	lv	Ir=20mA		250		mcd
Peak Wavelength	λP	Ir=20mA	440	450	460	nm
Half Width	Δλ	Ir=20mA		30		nm
Viewing Half Angle	θ 1/2	Ir=20mA		±10		deg.

±Brightness is measured byTektronix J-16.

‡Total Radiated Power is measured by Photodyne #500