

L470R-33**Blue LED Lamp with UV Resistant Resin**

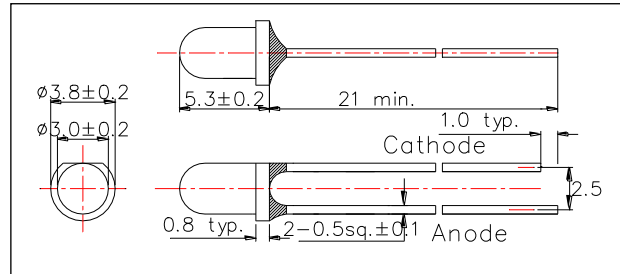
L470R-33 is an InGaN LED mounted on a lead frame with UV resistant resin.

On forward bias, it emits a band of visible light that peaks 465nm. This R series is designed for long life blue emission with UV band.

<Specifications>

1. Product Name: Blue LED Lamp
2. Type Number: L470R-33
3. Chip:
 - Chip material: InGaN
 - Peak Wavelength: 465nm typ.
4. Package
 - Type: Φ3mm Clear Molding
 - Resin Material: Silicone Resin
 - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	180	mW
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	200	mA
Reverse Voltage	VR	5	V
Thermal Resistance**	Rthja	270	K/W
Junction Temperature	Tj	100	°C
Operating Temperature	TOPR	-30 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature***	TSOL	265	°C

* Duty=1% and Pulse Width=10us.

** Junction - ambient, leads 7mm, soldered on PCB.

*** Soldering condition must be completed within 3 second at 265 °C.

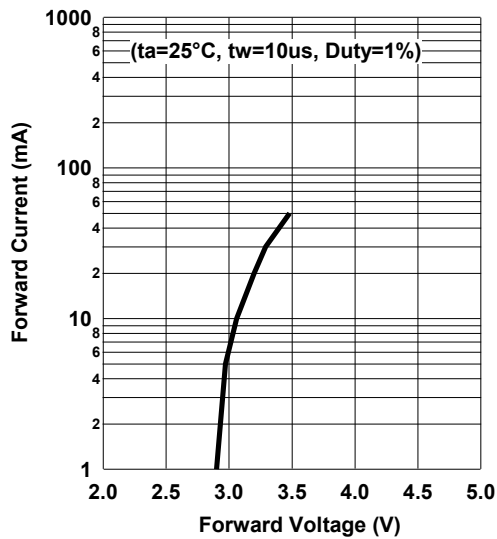
Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.3	4.0	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=20mA	10	18		mW
Radiant Intensity**	IE	IF=20mA		40		mW/sr
Brightness**	IV	IF=20mA		2500		mcd
Wavelength	Peak	λP	460	465	475	nm
	Dominant	λD		470		
Half Width	Δλ	IF=20mA		25		nm
Viewing Half Angle	θ1/2	IF=20mA		±14		deg

* Measured by S3584-08

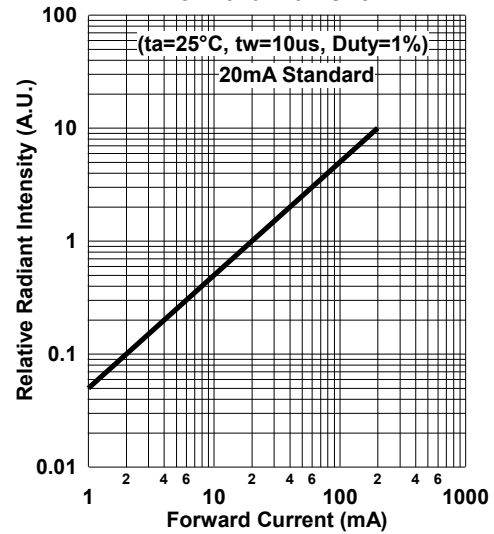
** Measured by Tektronix J-16



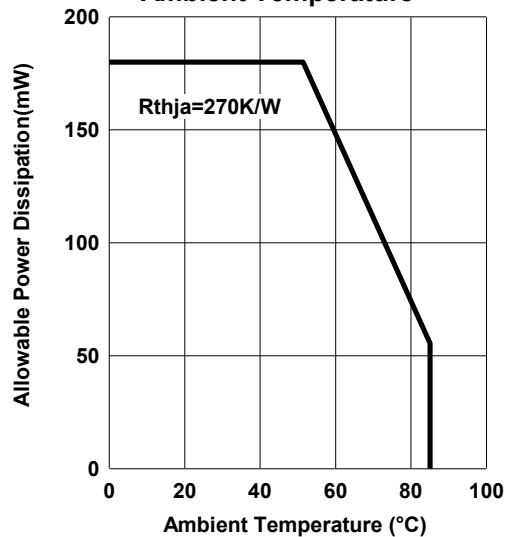
Forward Current - Forward Voltage



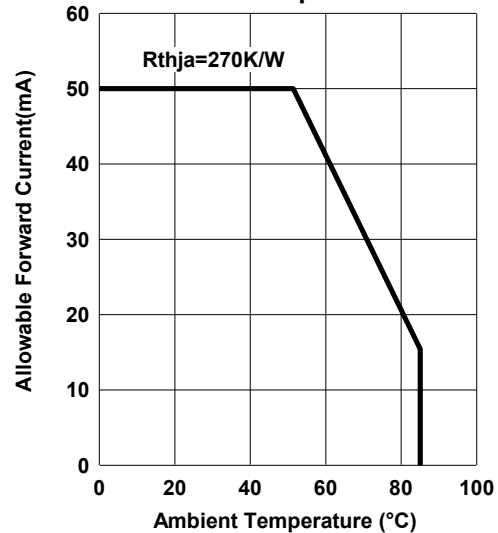
Relative Radiant Intensity - Forward Current



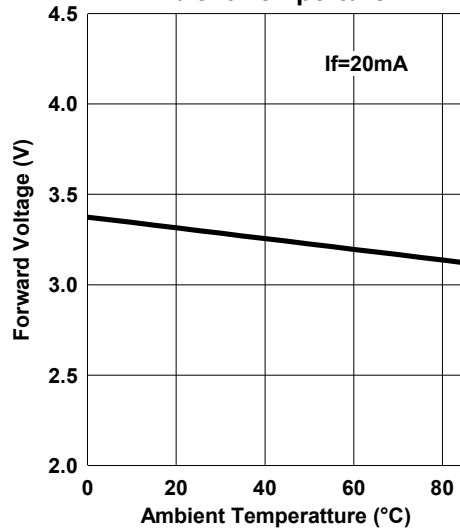
Allowable Power Dissipation - Ambient Temperature



Allowable Forward Current - Ambient Temperature



Forward Voltage - Ambient Temperature



Relative Radiant Intensity - Ambient Temperature

