L395R-33

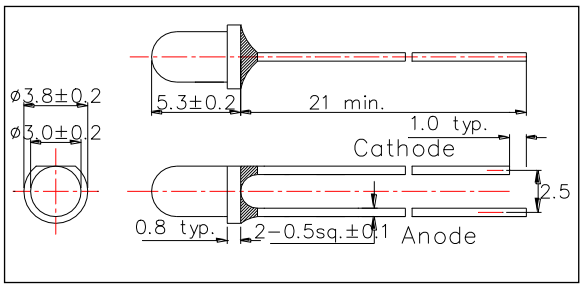
UV LED Lamp with UV Resistant Resin

L395R-33 is an InGaN LED mounted on a lead frame with UV resistant resin.
On forward bias, it emits a band of UV light that peaks 395nm.
This UV series is designed for long life under UV beam.

<Specifications>

1. Product Name: UV LED Lamp
2. Type Number: L395R-33
3. Chip:
   - Chip material: InGaN
   - Peak Wavelength: 395nm typ.
4. Package
   - Type: Φ3mm clear molding
   - Resin Material: Epoxy Resin
   - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25℃]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	220	mW
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	250	K/W
Junction Temperature	Tj	120	℃
Operating Temperature	TOPR	-40 ~ +100	℃
Storage Temperature	TSTG	-40 ~ +100	℃
Soldering Temperature**	TSOL	250	℃

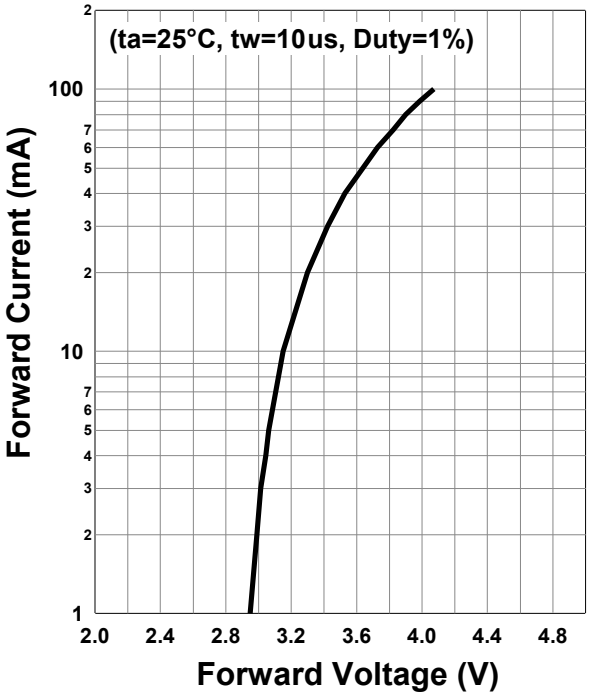
* Duty=1% and Pulse Width=10μs
** Soldering condition must be completed within 5 second at 250℃.

Electro-Optical Characteristics [Ta=25℃]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.3	4.3	V
	VFP	IFP=100mA		4.1		
Radiated Power*	PO	IF=20mA		27		mW
		IFP=100mA		120		
Peak Wavelength	λP	IF=20mA	390	395	400	nm
Half Width	Δλ	IF=20mA		12		nm
Viewing Half Angle	θ1/2	IF=20mA		±13		deg
Rise Time	Tr	IF=20mA		60		ns
Fall Time	tf	IF=20mA		50		ns

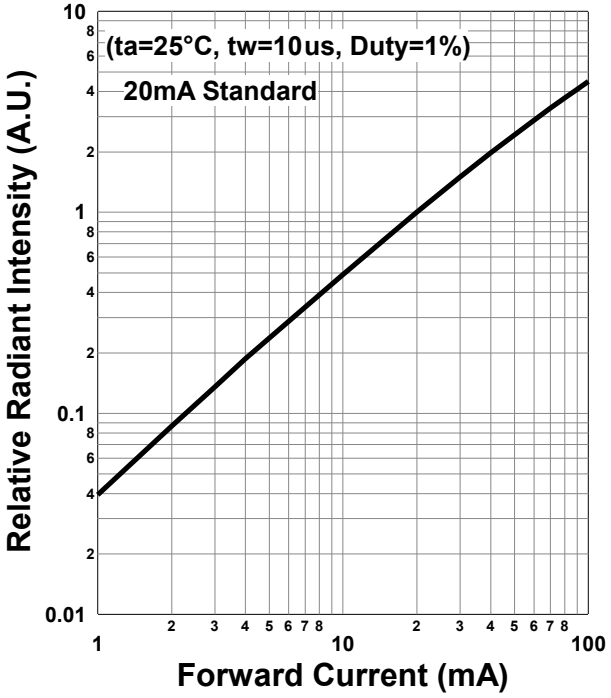
* Measured by S3584-08

RoHS Compliant

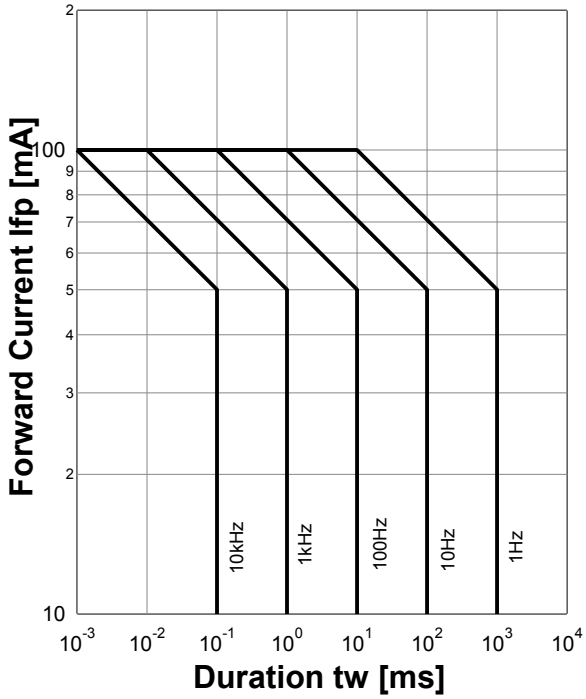
Forward Curent - Forward Voltage



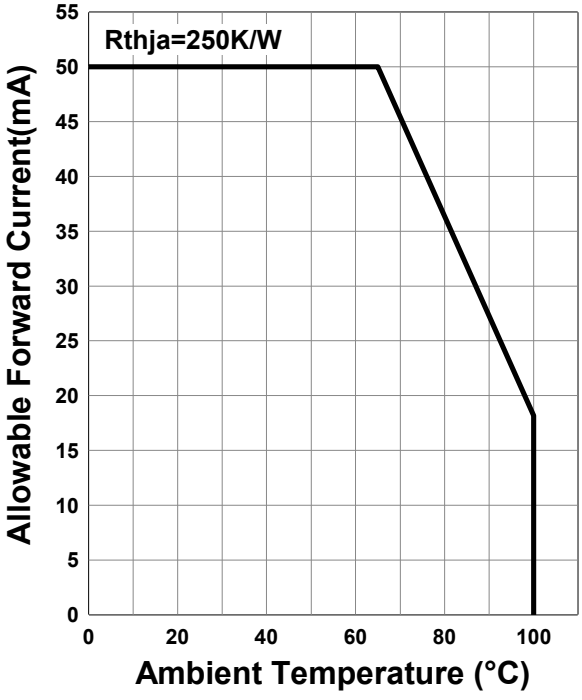
Relative Radiant Intensity - Forward Current

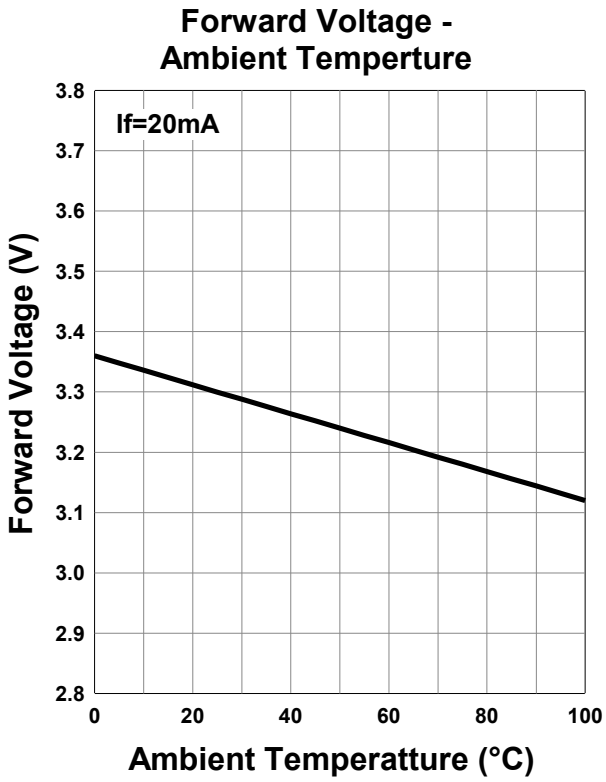


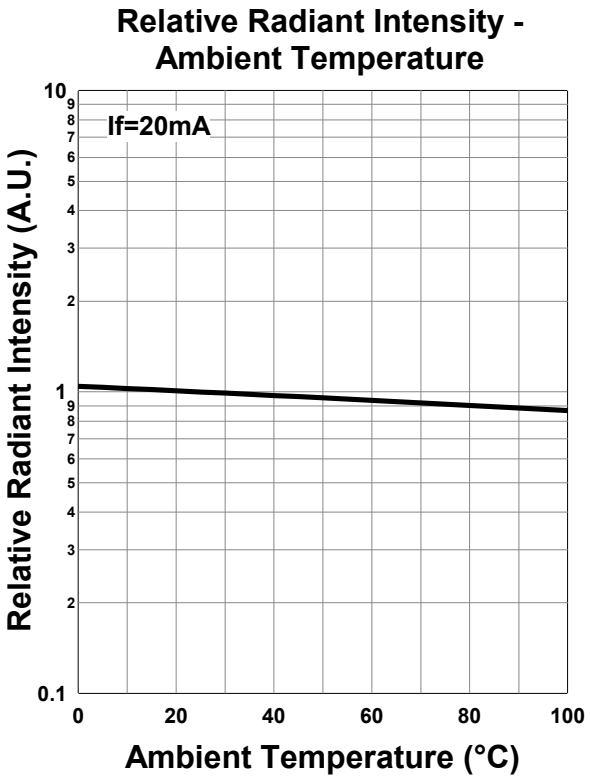
Forward Current - Pulse Duration

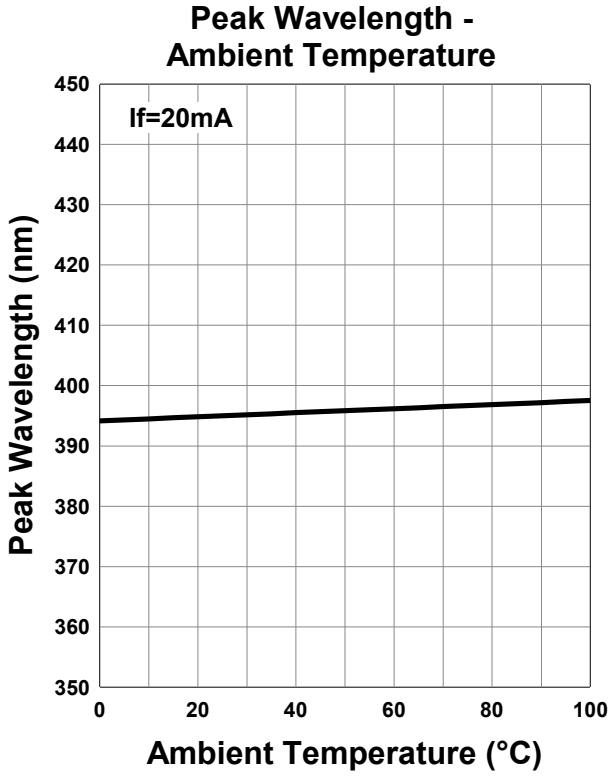


Allowable Forward Current - Ambient Temperature

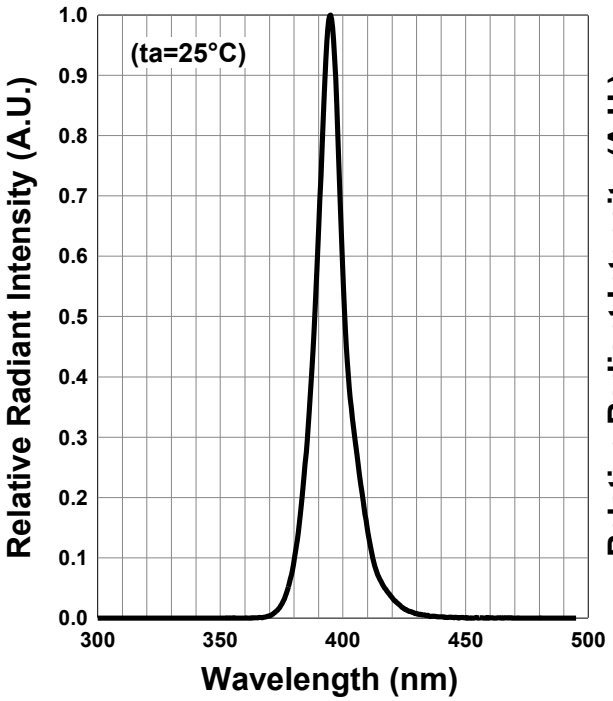



Forward Voltage -
Ambient Temperture
If=20mA
Forward Voltage (V)
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
0
20
40
60
80
100
Ambient Temperatture (°C)

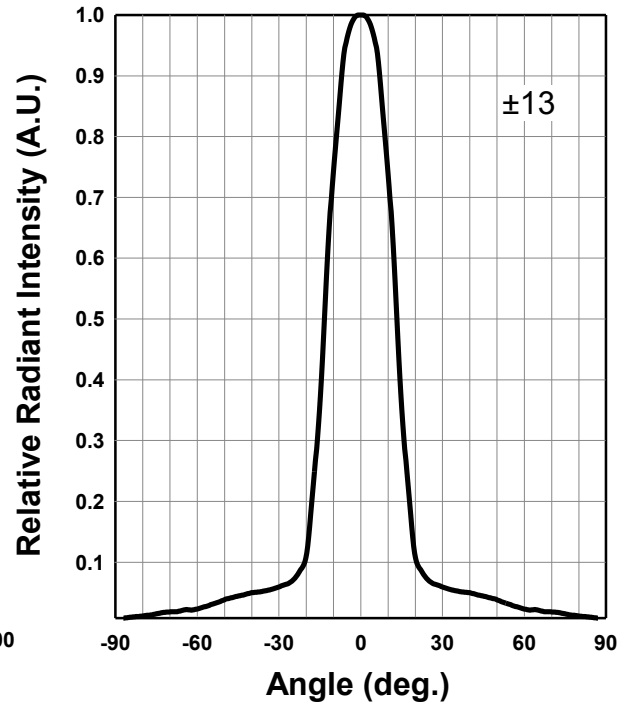

Relative Radiant Intensity -
Ambient Temperature
If=20mA
Relative Radiant Intensity (A.U.)
10
1
0.1
0
20
40
60
80
100
Ambient Temperature (°C)


Peak Wavelength -
Ambient Temperature
If=20mA
Peak Wavelength (nm)
450
440
430
420
410
400
390
380
370
360
350
0
20
40
60
80
100
Ambient Temperature (°C)

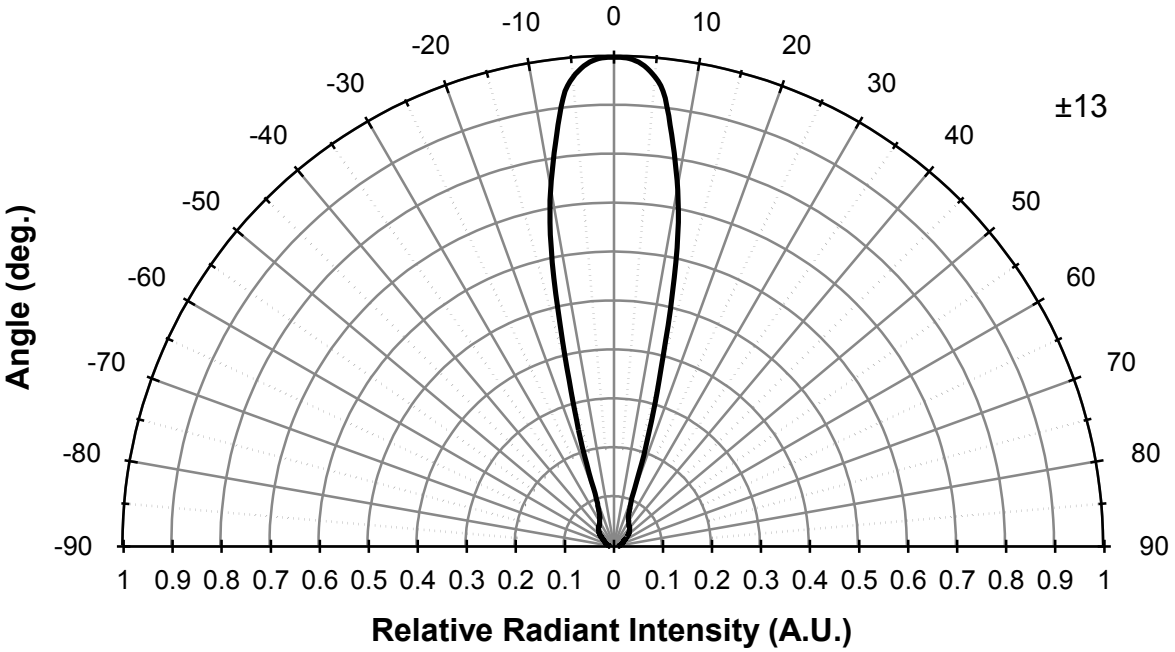
Relative Spectral Emission



Radiation Characteristics



Radiation Characteristics



Disclaimer

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Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements. Product data and parameters may vary by user application and over time.

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