

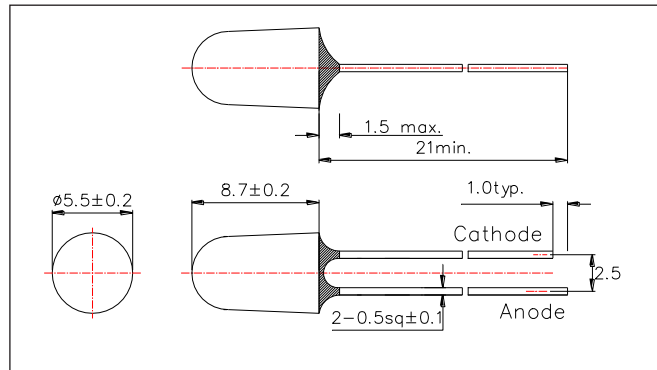
L420R-06

UV LED Lamp

<Specifications>

1. Product Name: UV LED Lamp
2. Type Number: L420R-06
3. Chip:
 - Chip material: InGaN
 - Dimension: 350um x 350um
 - Peak Wavelength: 420nm typ.
4. Package
 - Type: $\Phi 5\text{mm}$ clear molding
 - Resin Material: UV 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	220	mW
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	270	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-20 ~ +100	°C
Storage Temperature	TSTG	-20 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Duty 1% and Pulse Width=10us

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

Electro-Optical Characteristics [Ta=25°C]

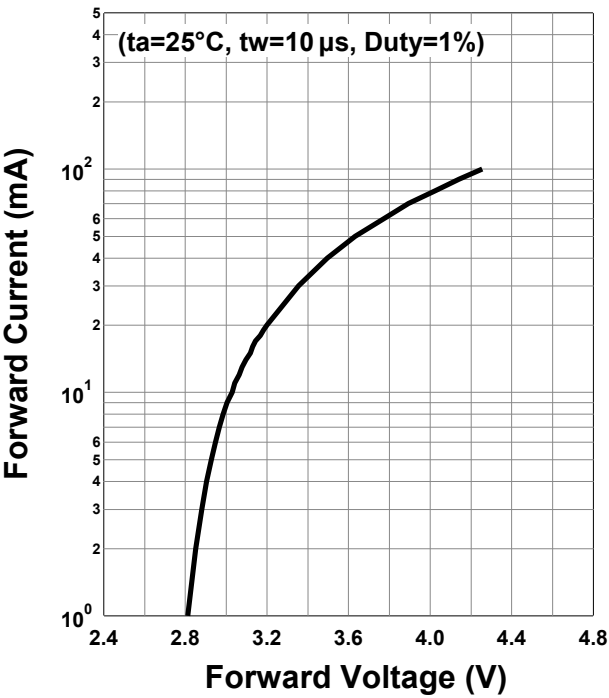
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.2	4.3	V
	VFP	IFP=100mA		4.3		
Radiated Power*	PO	IF=20mA		31		mW
		IFP=100mA		110		
Radiant Intensity**	IE	IF=20mA		290		mW/sr
		IFP=100mA		1100		
Luminous Flux	ΦV	IF=20mA		170		mlm
Peak Wavelength	λP	IF=20mA	410		430	nm
Half Width	$\Delta \lambda$	IF=20mA		17		nm
Viewing half Angle	$\theta 1/2$	IF=20mA		± 3		deg
Rise Time	tr	IF=20mA		40		ns
Fall Time	tf	IF=20mA		30		ns

* Measured by S3584-08

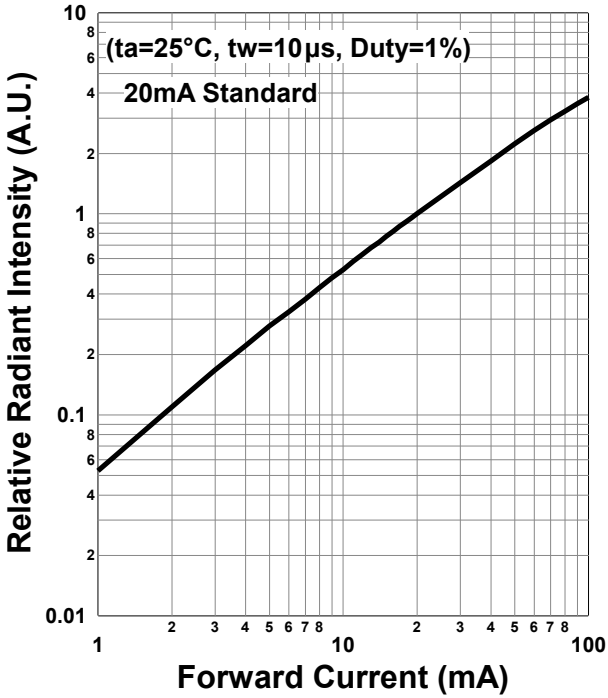
** Measured by CIE127-2007 Condition B



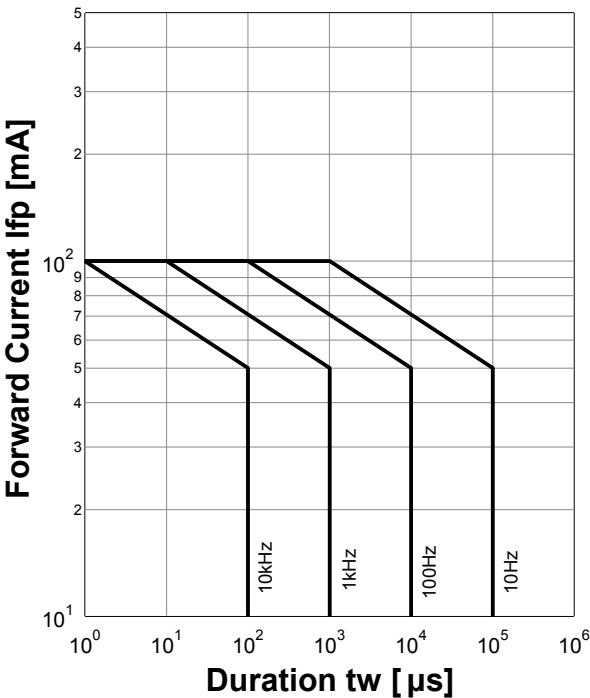
Forward Current - Forward Voltage



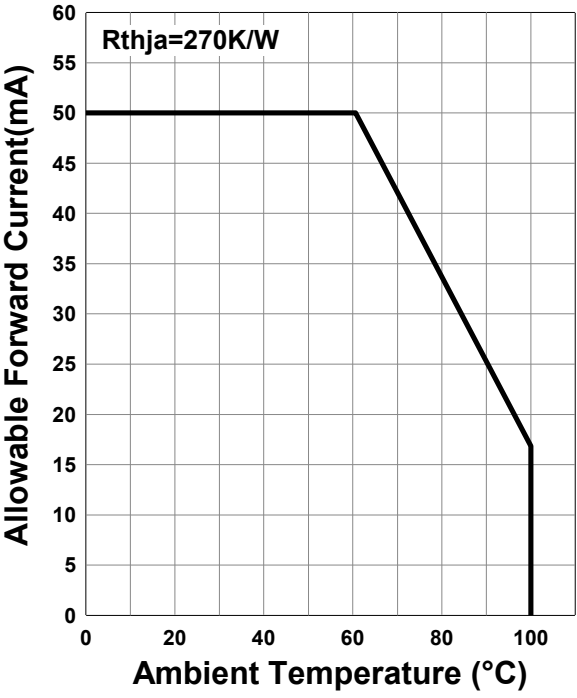
Relative Radiant Intensity - Forward Current

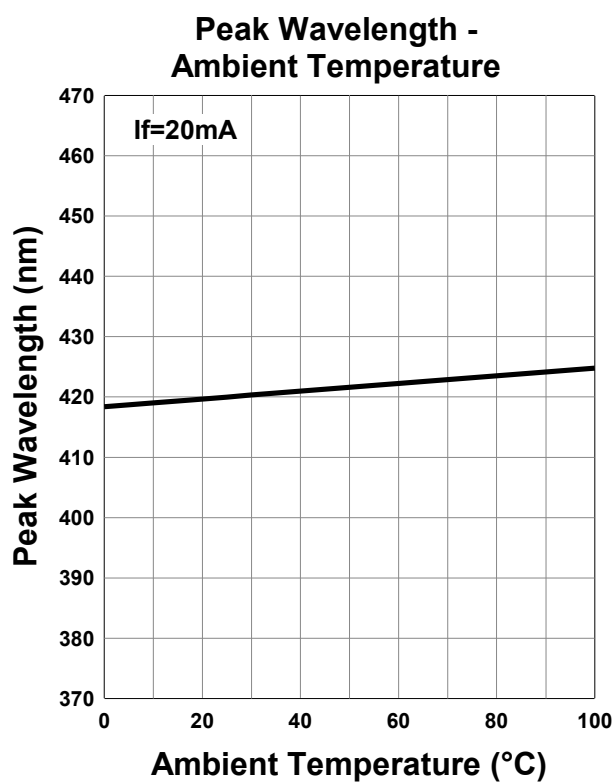
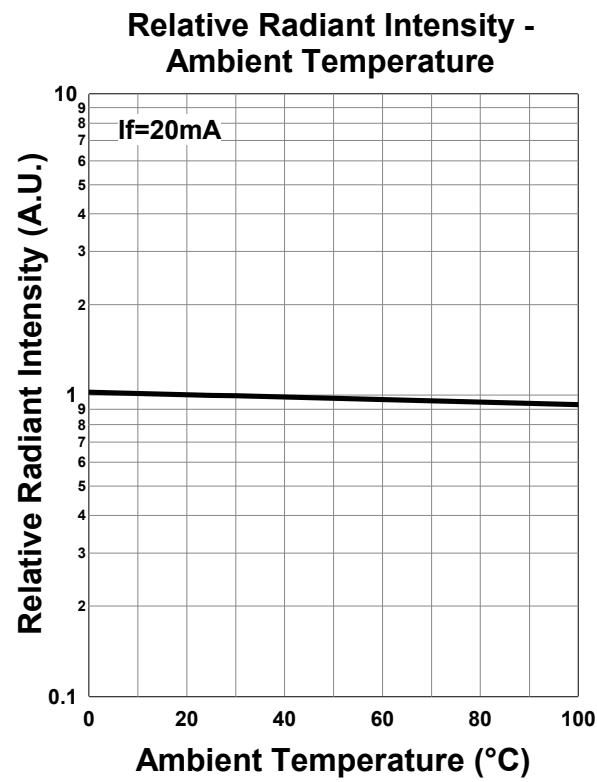
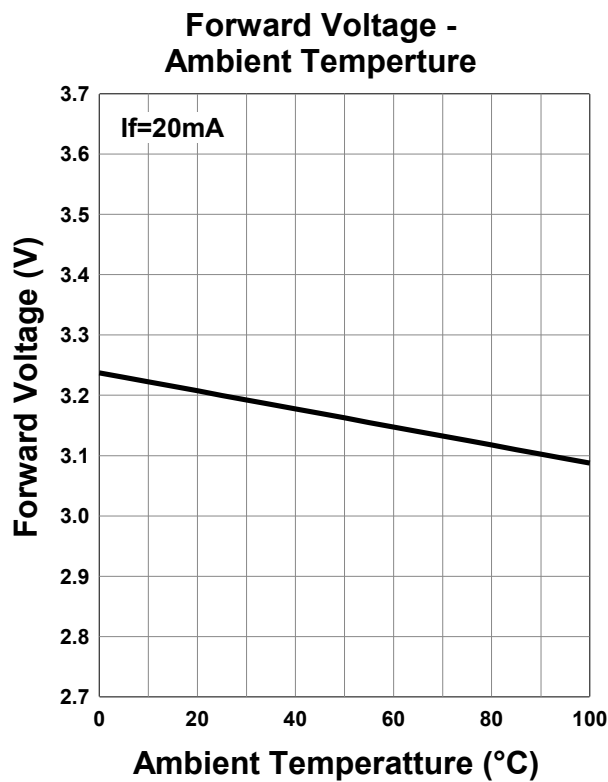


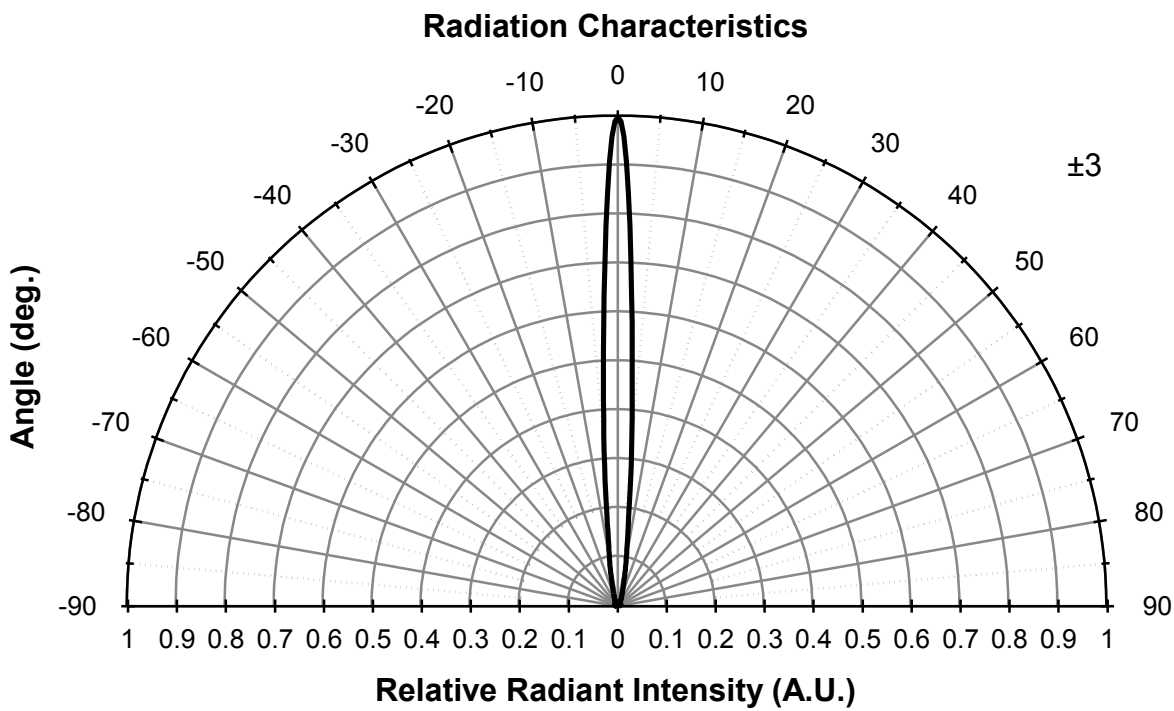
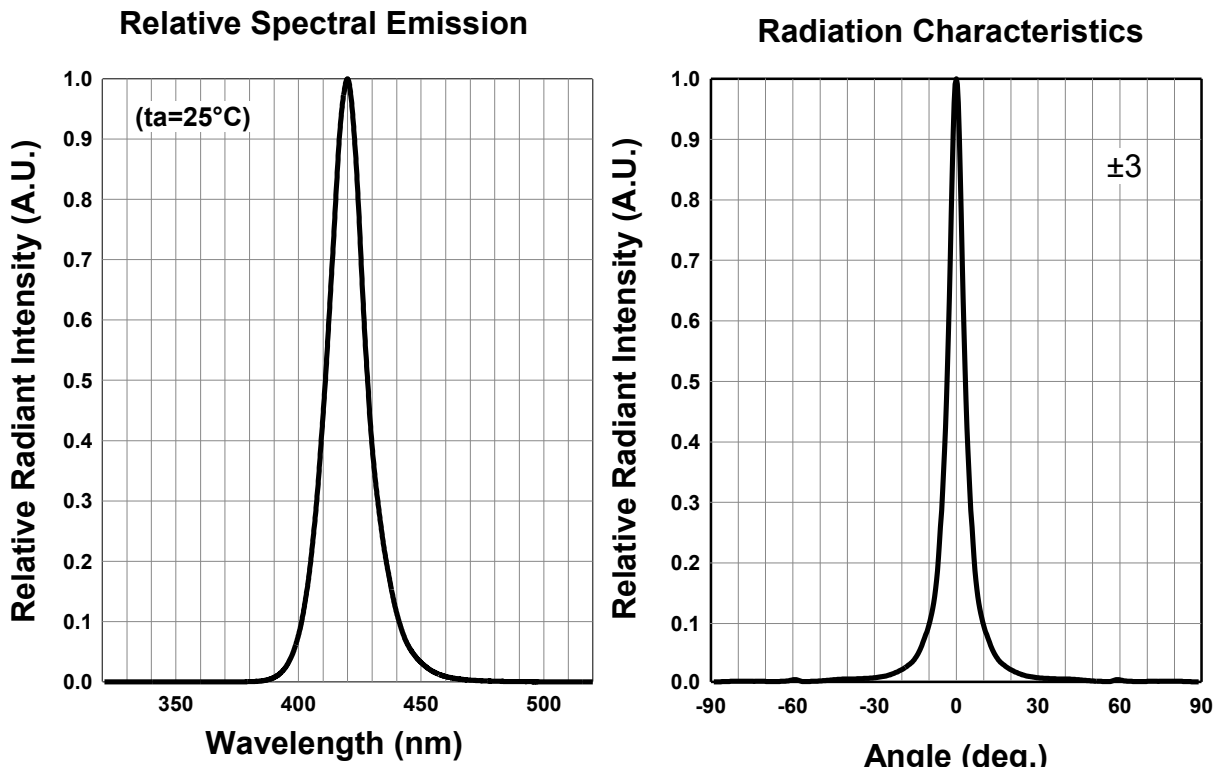
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature







Disclaimer

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

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.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.

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