

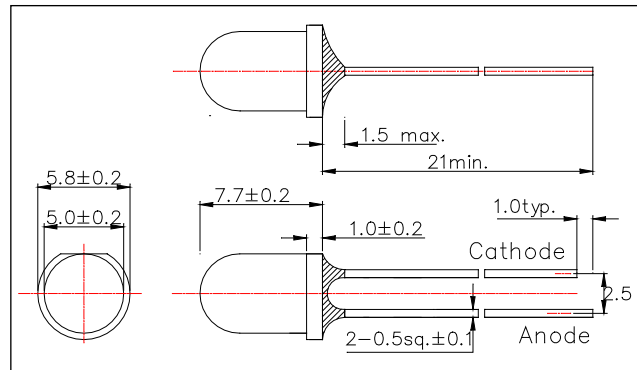
L418R-04

UV LED Lamp

<Specifications>

- Chip Material: InGaN
- Chip Dimension: 350um x 300um
- Number of Chips: 1pcs
- Peak Wavelength: 418nm typ
- Package Type: Φ5mm Clear Molding
- Lead Frame: Soldered(Lead Free)
- Lens: UV Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Tc=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	230	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[Tc=25°C]

Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=20mA		3.2	4.3	V
	VFP	IPF=100mA		4.2		
Total Radiated Power*	PO	IF=20mA		26		mW
		IPF=100mA		100		
Radiant Intensity**	IE	IF=20mA		75		mW/sr
		IPF=100mA		280		
Luminous Flux	ΦV	IF=20mA		180		lm
Peak Wavelength	λP	IF=20mA	408		428	nm
Dominant Wavelength	λD	IF=20mA		430		nm
Half Width	Δλ	IF=20mA		16		nm
Viewing Half Angle	θ1/2	IF=20mA		±13		deg
Rise Time	tr	IF=20mA		15		ns
Fall Time	tf	IF=20mA		15		ns

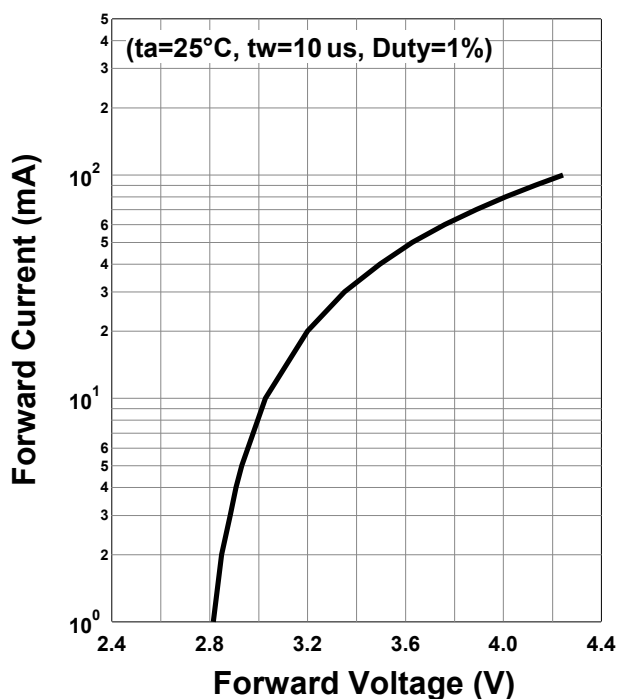
* Measured by S3584-08

** Measured by CIE127-2007 Condition B.

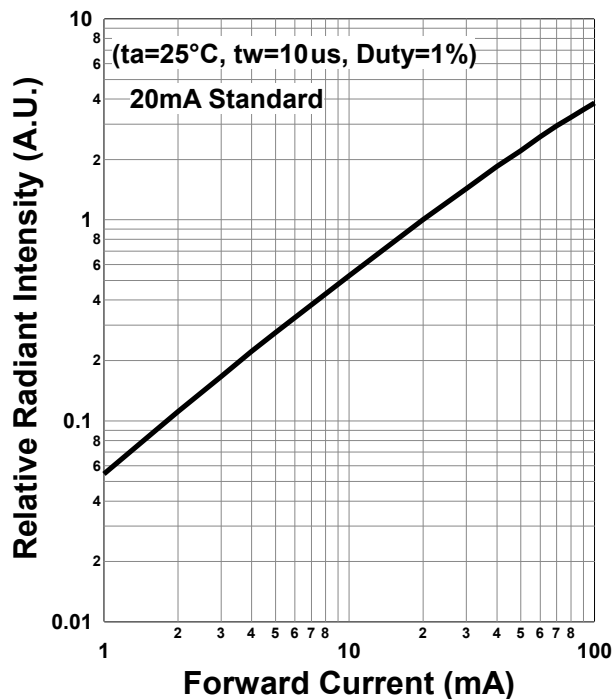


Typical Characteristic Curves

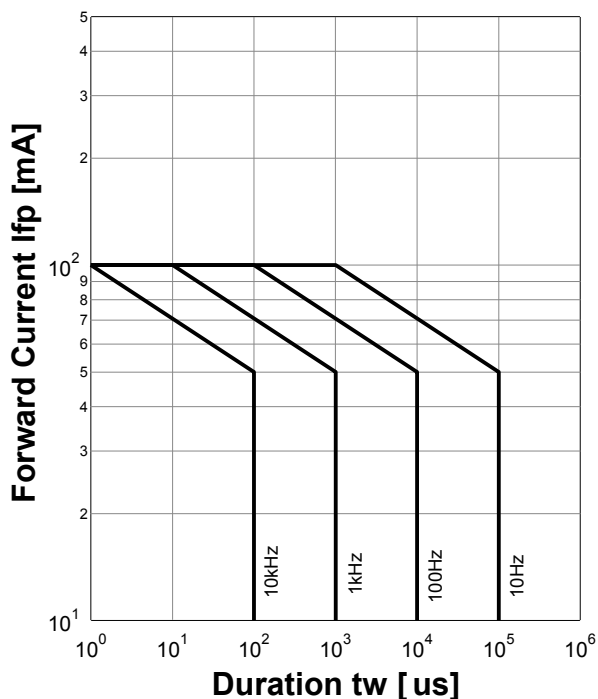
Forward Current - Forward Voltage



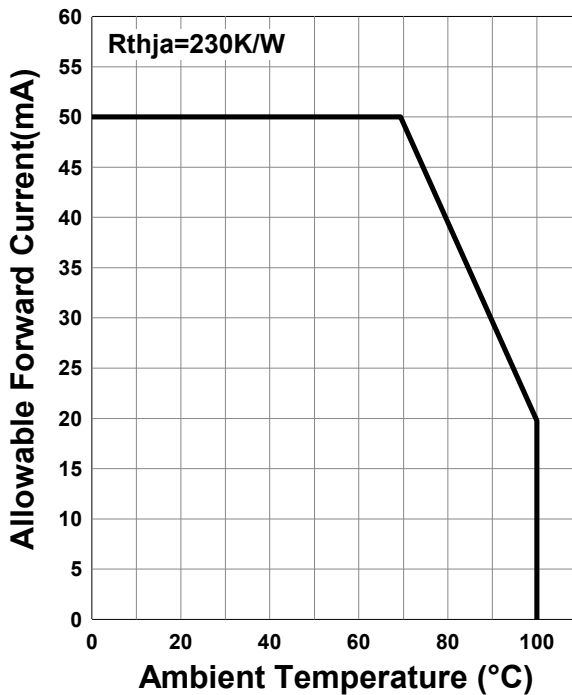
Relative Radiant Intensity - Forward Current

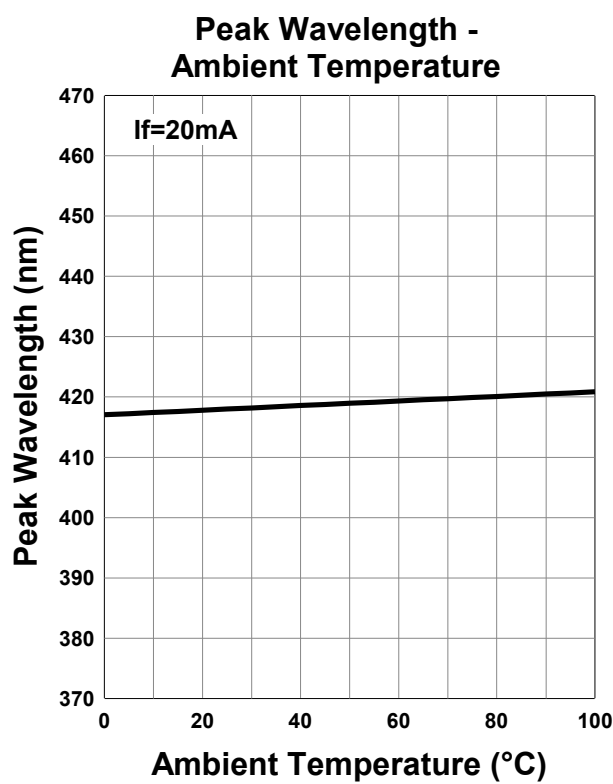
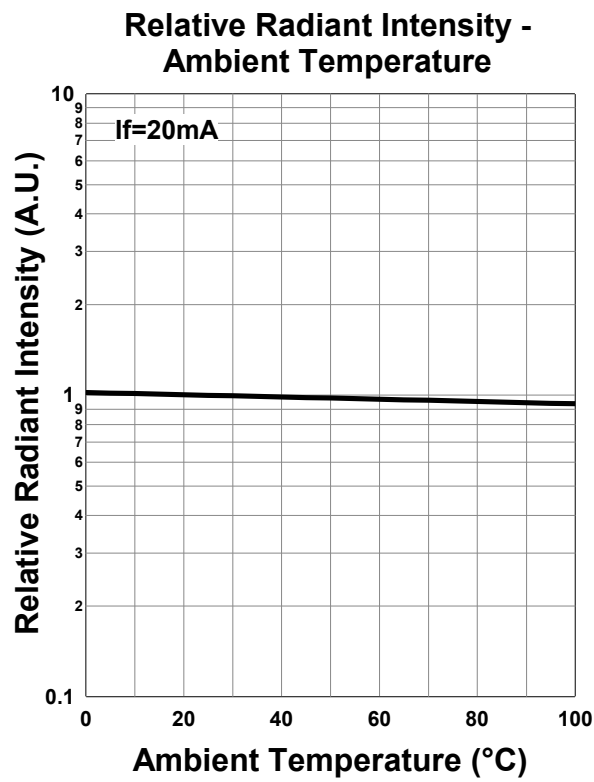
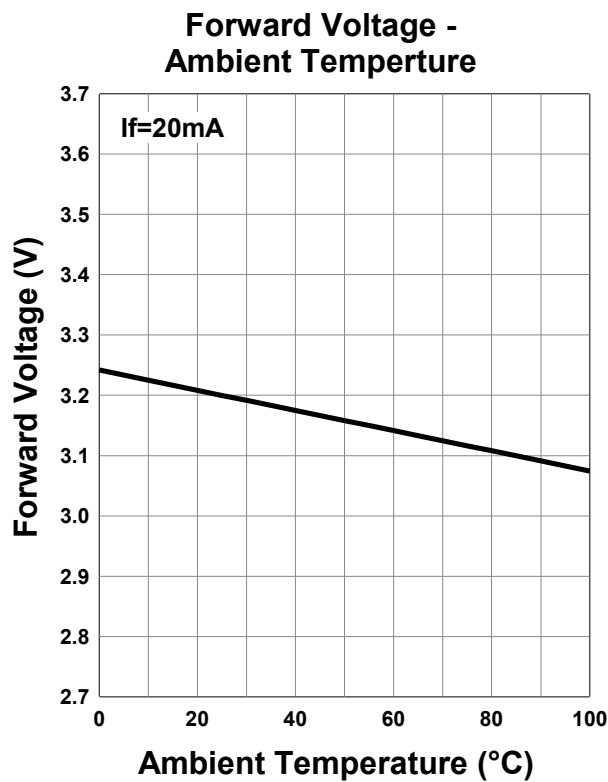


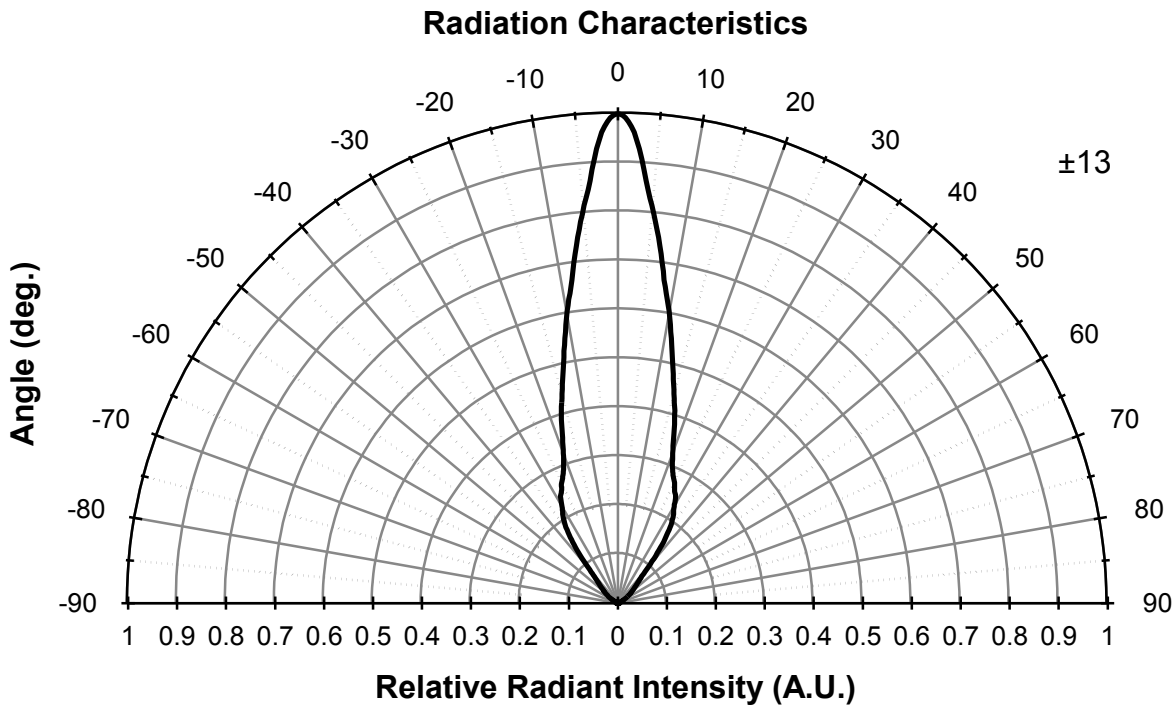
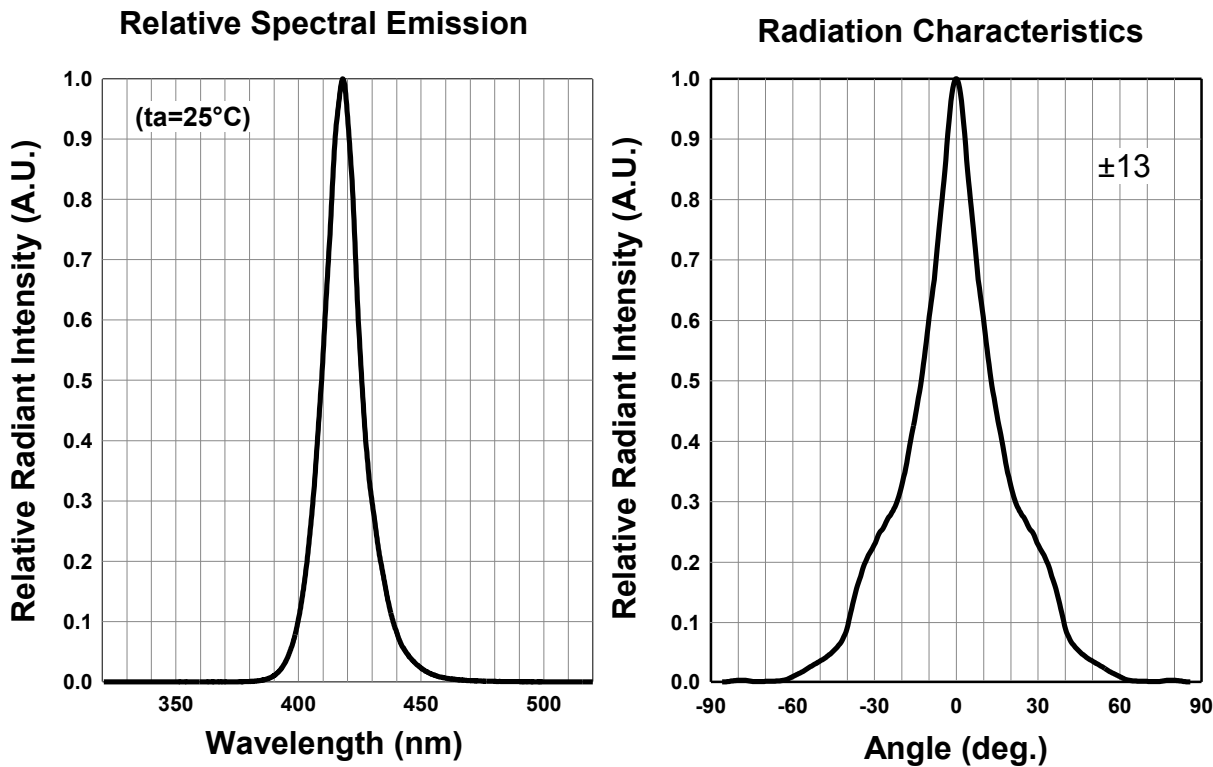
Forward Current - Pulse Duration



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.

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