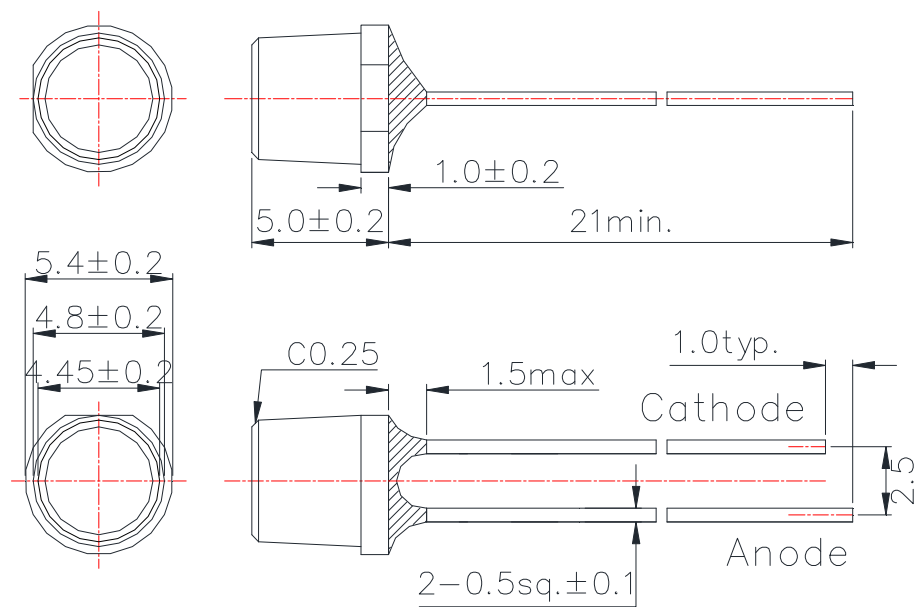


L405R-05

UV LED Lamp

PRELIMINARY

Outline and Internal Circuit



(Unit : mm)

Features

- Chip Material : InGaN
- Chip Dimension : $350\mu\text{m} * 350\mu\text{m}$
- Number of Chips : 1pce
- Peak Wavelength : 405nm typ.
- Package Type : $\phi 5\text{mm}$ clear molding
- Lead Frame : Soldered (Lead Free)
- Lens : UV Resin

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Power Dissipation	PD	200	mW
Forward Current	IF	50	mA
Pulse Forward Current	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	200	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	Topr	-20 ~ +100	°C
Storage Temperature	Tstg	-20 ~ +100	°C
Soldering Temperature	TSOL	265	°C

‡Pulse Forward Current condition : Duty 1% and Pulse Width=10us.

‡Soldering condition : Soldering condition must be completed with 3 seconds at 265°C.

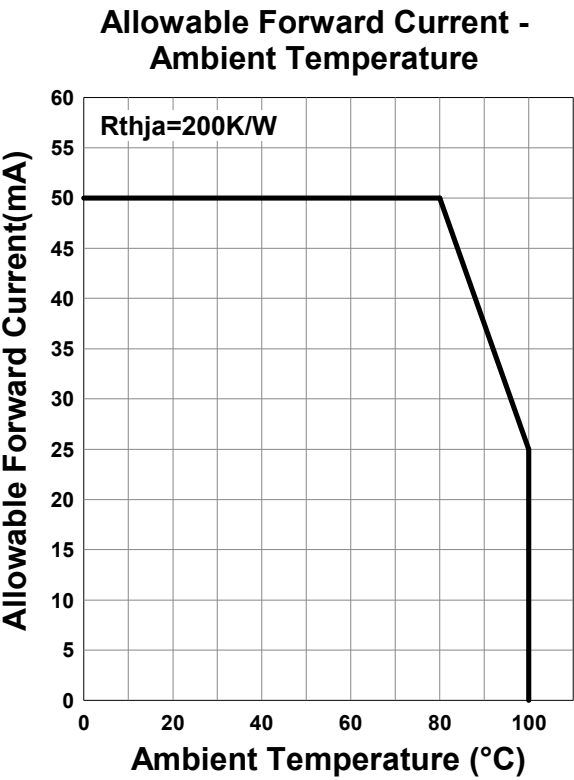
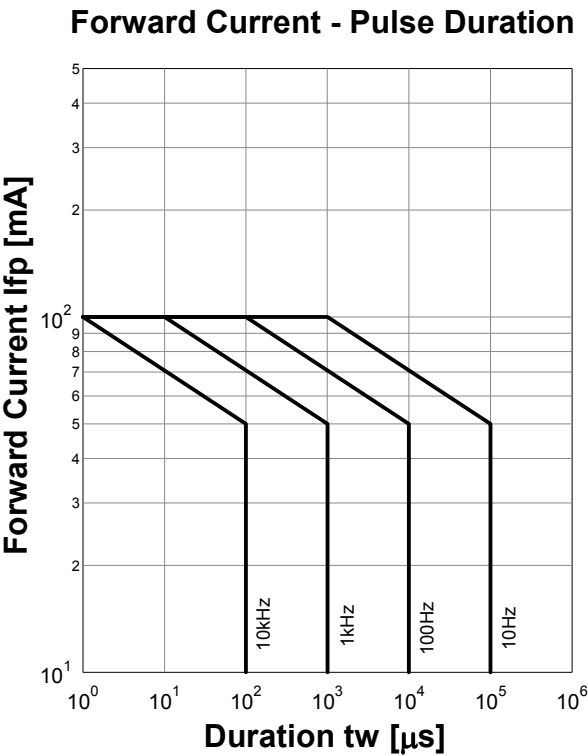
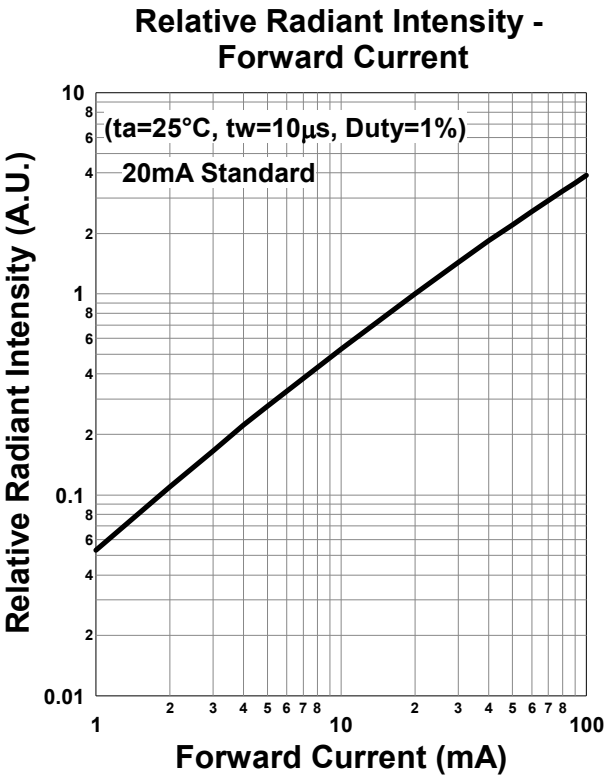
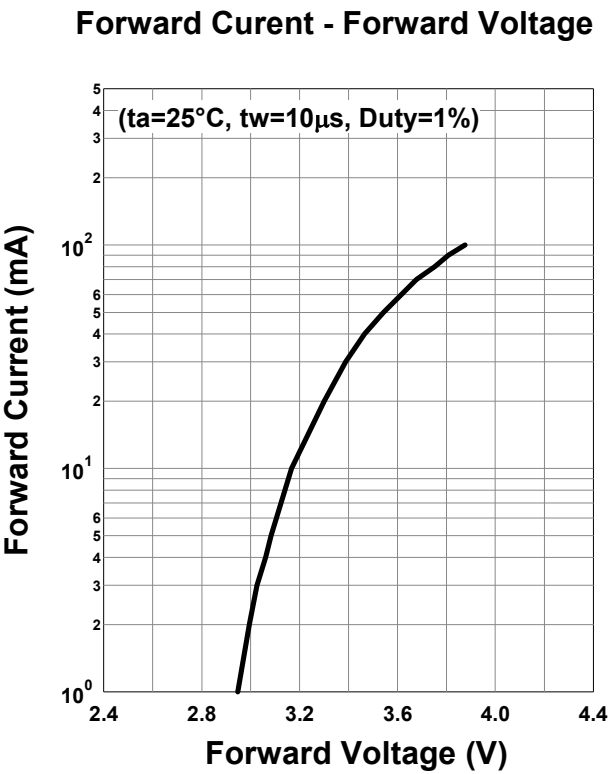
Optical and Electrical Characteristics (Tc=25°C)

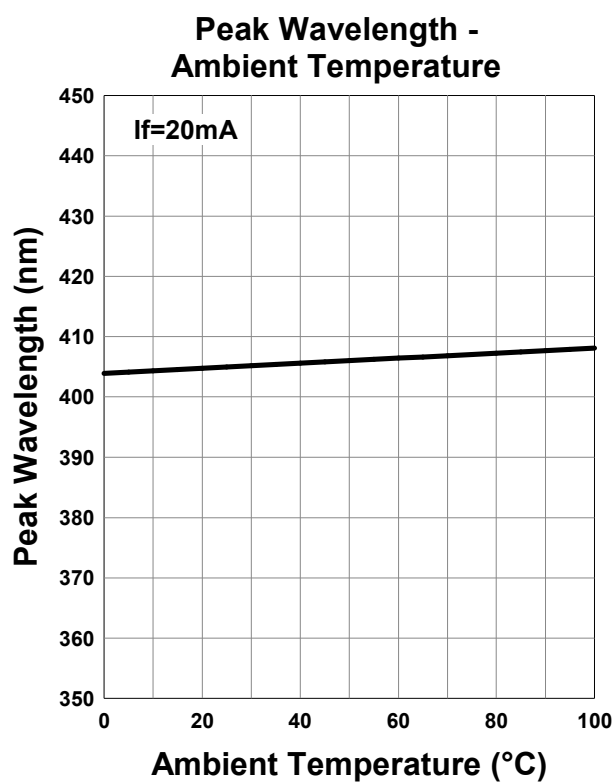
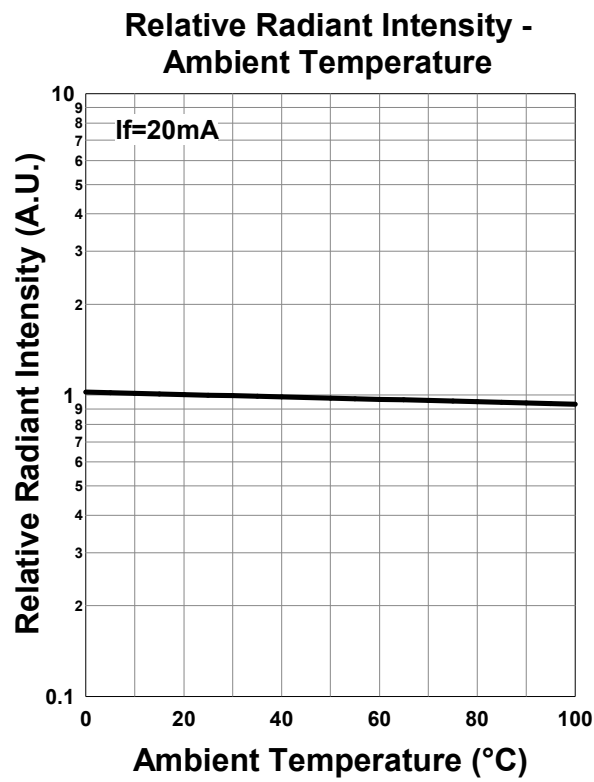
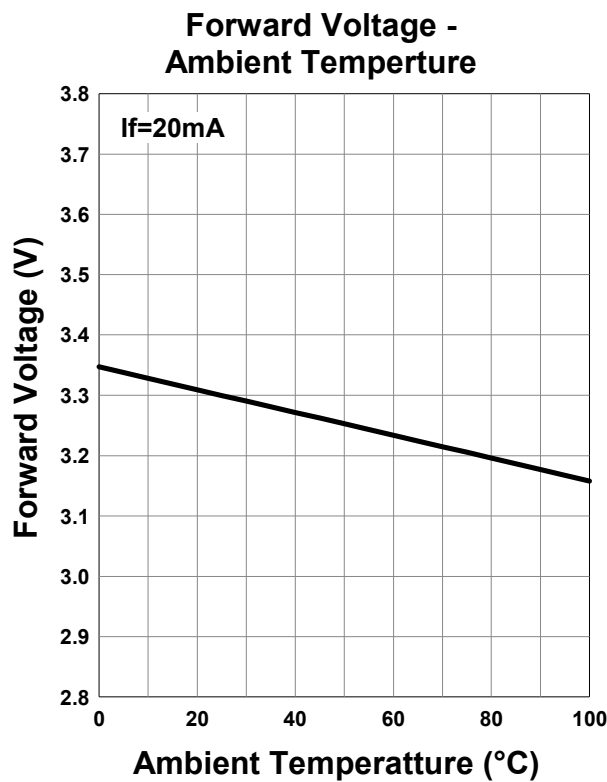
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	VF		3.3	4.0	V	IF=20mA
	VFP		3.9			IFP=100mA
Total Radiated Power	PO		16		mW	IF=20mA
			62			IFP=100mA
Radiant Intensity	IE		8.4		mW/sr	IF=20mA
			32			IFP=100mA
Peak Wavelength	λ_p	400		410	nm	IF=20mA
Half Width	$\Delta\lambda$		19		nm	IF=20mA
Viewing Half Angle	$\theta_{1/2}$		±51		deg.	IF=20mA
Rise Time	tr		10		ns	IF=20mA
Fall Time	tf		15		ns	IF=20mA

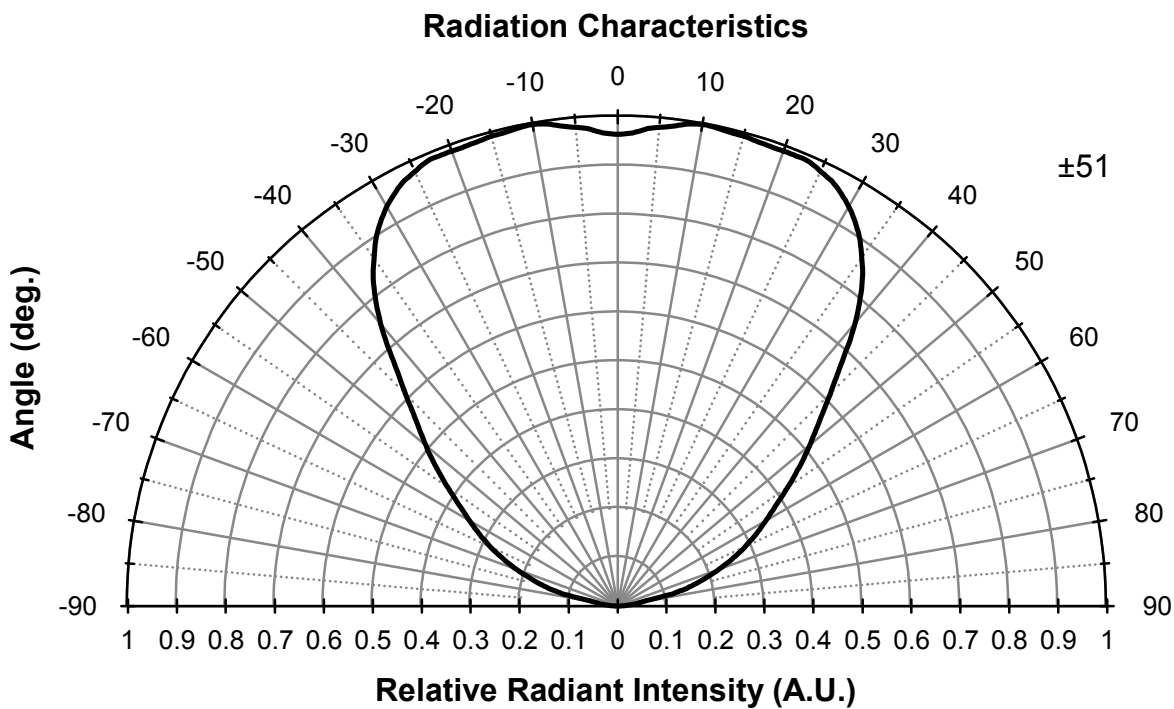
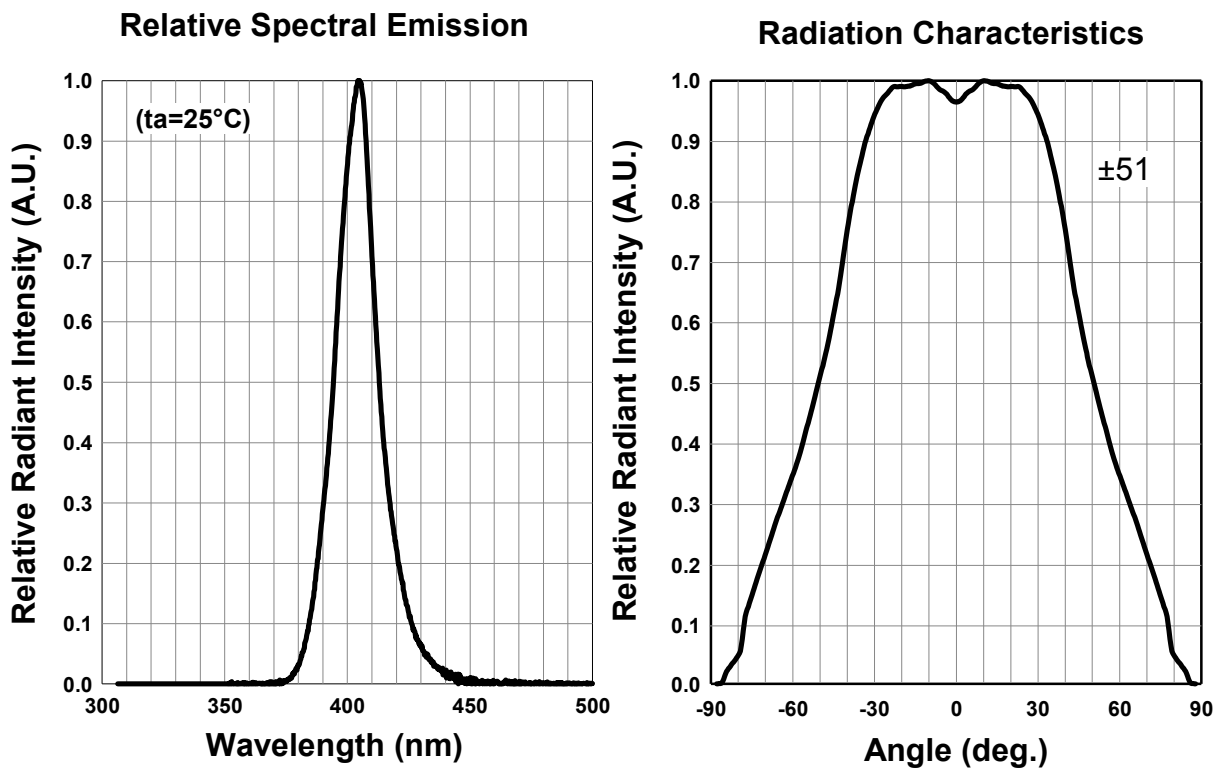
‡ Radiated Power is measured by S3584-08.

‡ Radiant Intensity is measured by CIE127-2007 Condition B.

Typical Characteristic Curves







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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