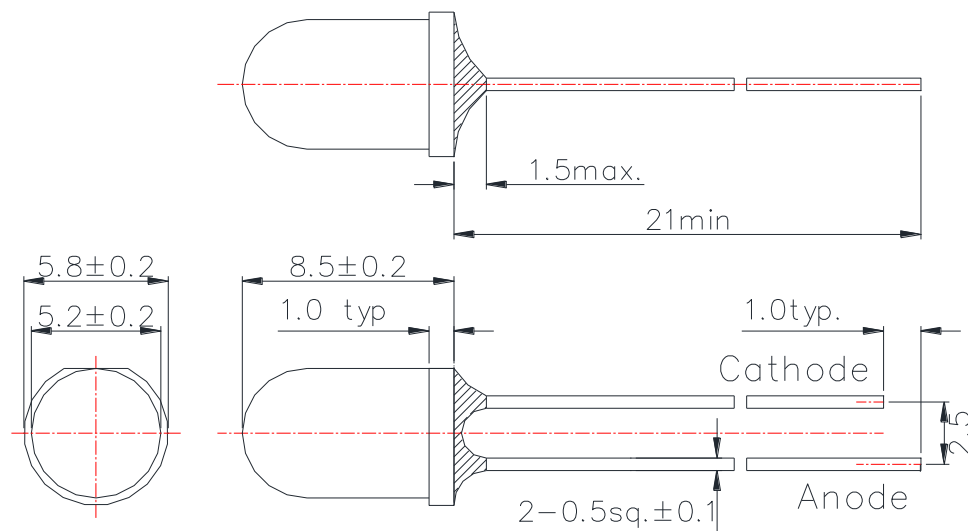


L505R-02

Super Bright Green LED Lamp

Outline and Internal Circuit



(Unit : mm)

Features

- Chip Material : InGaN
- Chip Dimension : 350um * 300um
- Number of Chips : 1pce
- Peak Wavelength : 505nm typ.
- Package Type : $\phi 5$ mm clear molding
- Lead Frame : Soldered (Lead Free)
- Lens : UV Resin

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Power Dissipation	PD	190	mW
Forward Current	IF	50	mA
Pulse Forward Current	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	240	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	Topr	-40 ~ +100	°C
Storage Temperature	Tstg	-40 ~ +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)

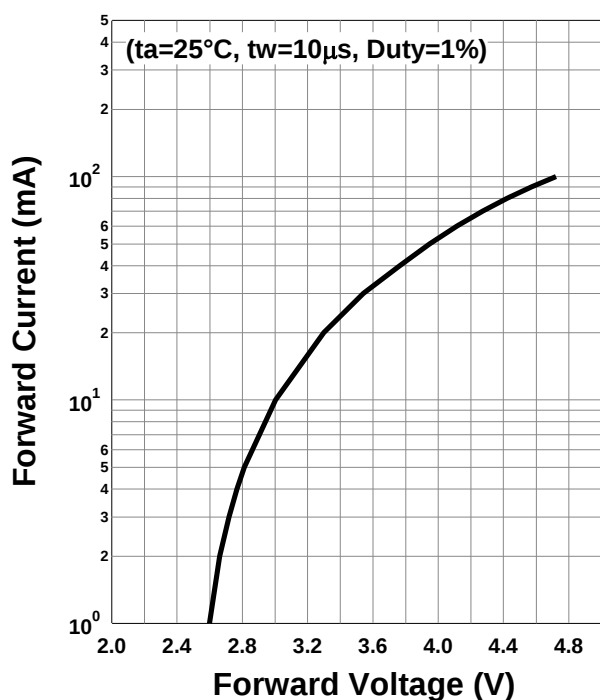
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	VF		3.3	3.8	V	IF=20mA
	VFP		4.7			IFP=100mA
Total Radiated Power	PO		11		mW	IF=20mA
			30			IFP=100mA
Radiant Intensity	IE		130		mW/sr	IF=20mA
			350			IFP=100mA
Luminous Flux	ΦV		4000		lm	IF=20mA
Peak Wavelength	λp	495		515	nm	IF=20mA
Dominant Wavelength	λD		508		nm	IF=20mA
Half Width	Δλ		30		nm	IF=20mA
Viewing Half Angle	θ1/2		±3		deg.	IF=20mA
Rise Time	tr		25		ns	IF=20mA
Fall Time	tf		70		ns	IF=20mA

‡ Radiated Power is measured by S3584-08.

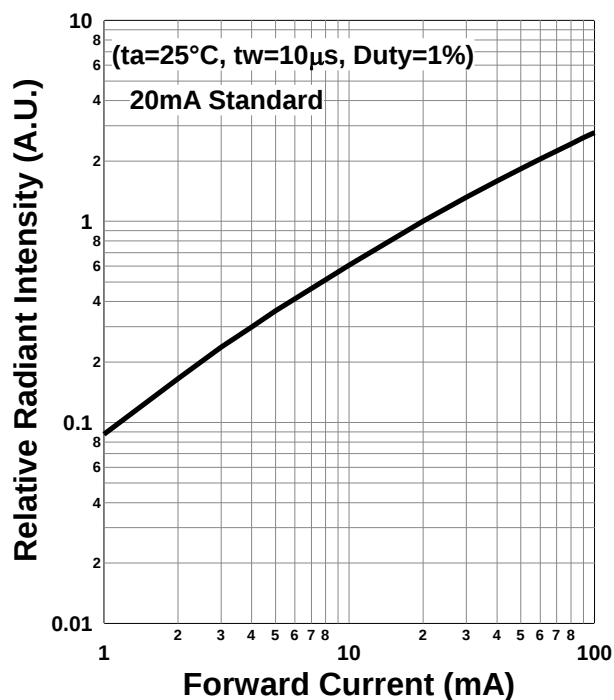
‡ Radiant Intensity is measured by CIE127-2007 Condition B.

Typical Characteristic Curves

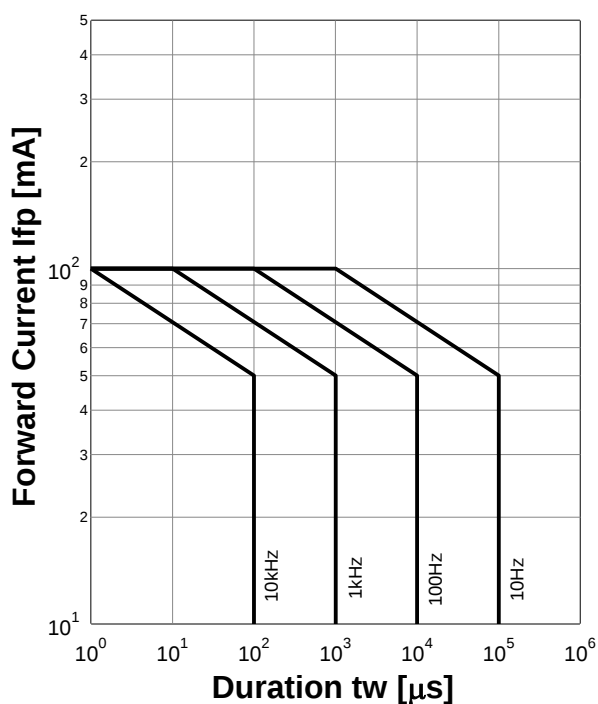
Forward Current - Forward Voltage



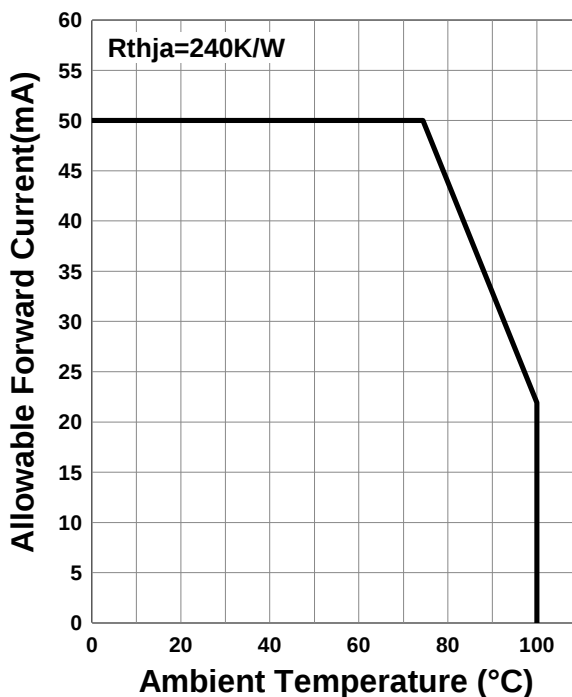
Relative Radiant Intensity - Forward Current

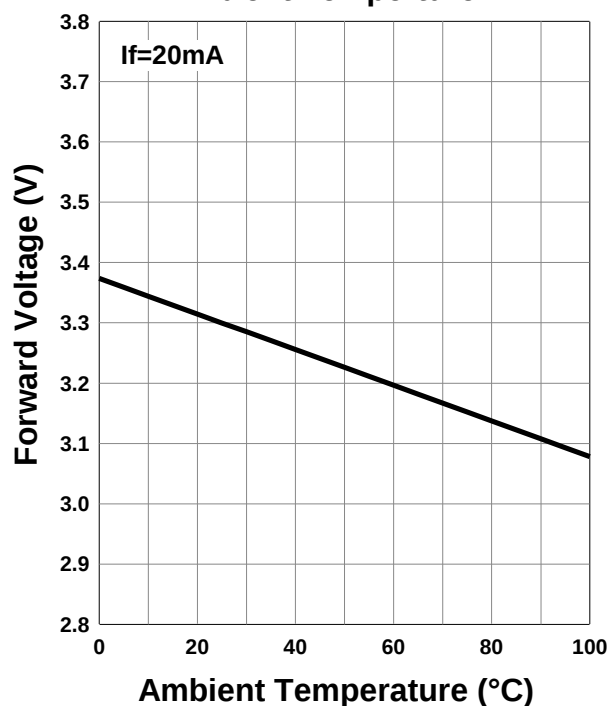
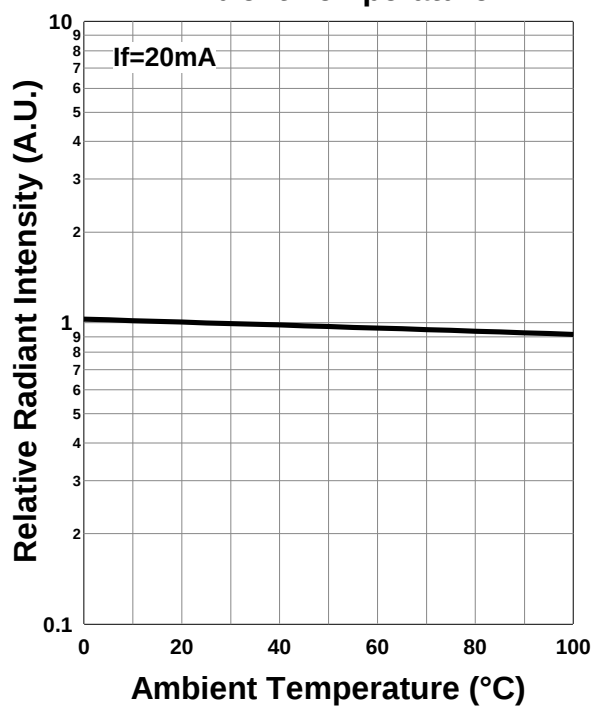
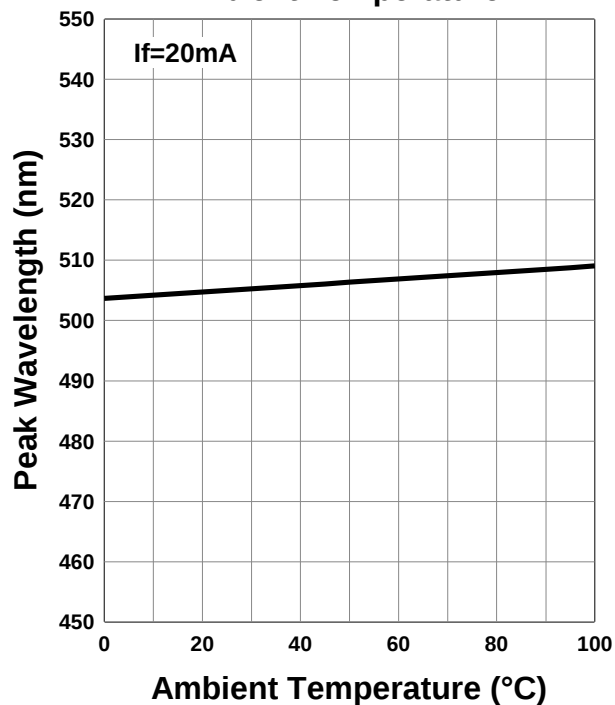


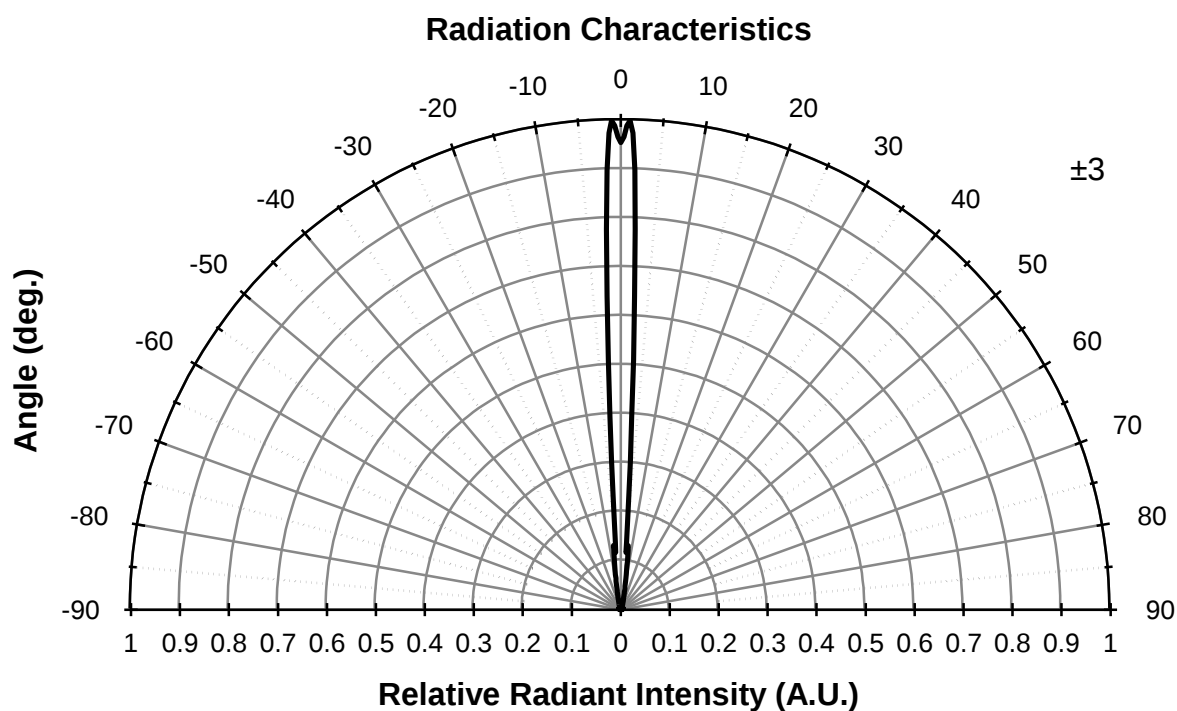
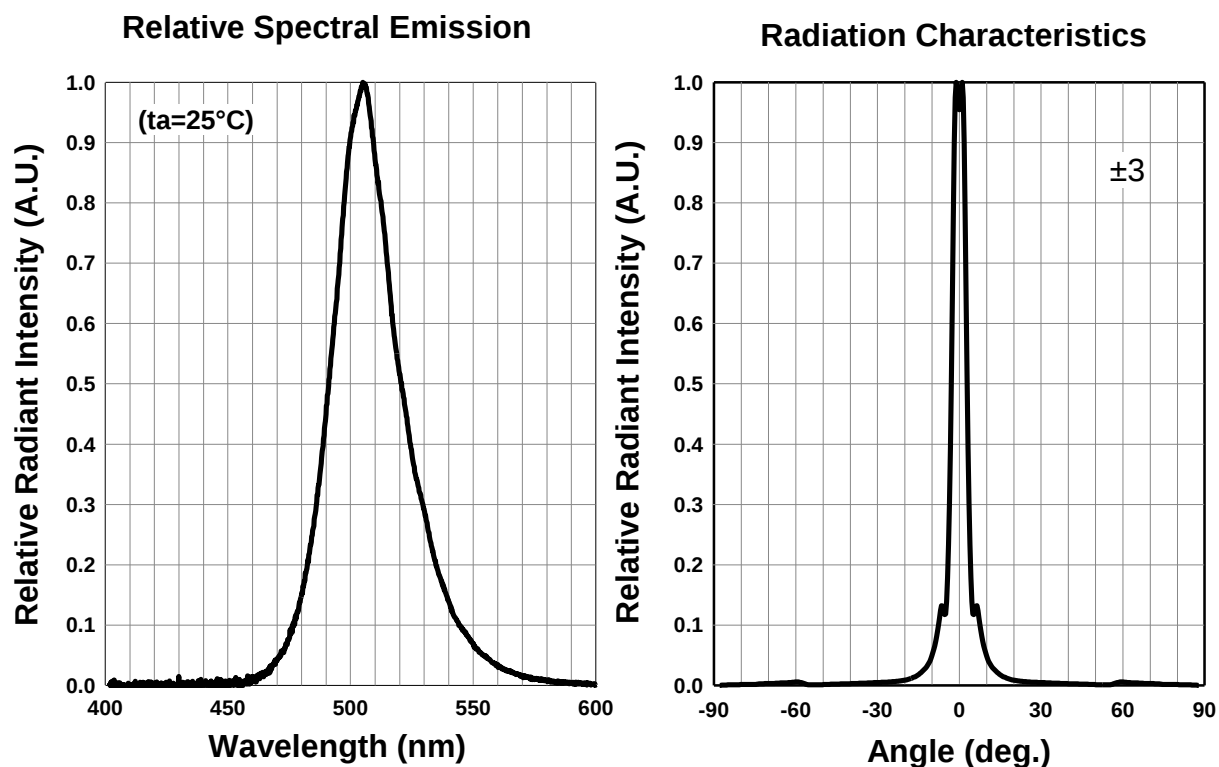
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature



**Forward Voltage -
Ambient Temperature****Relative Radiant Intensity -
Ambient Temperature****Peak Wavelength -
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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