

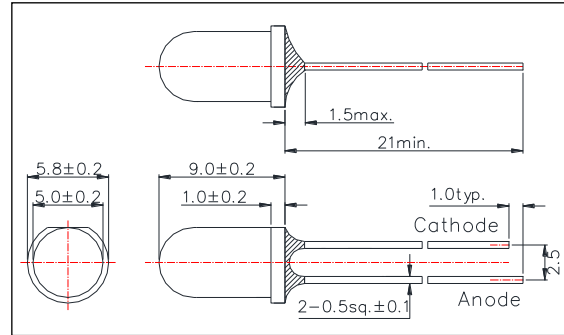
## L545-01 Pure Green LED Lamp

L545-01 is an InGaN LED mounted on a lead frame with a clear epoxy resin. On forward bias, it emits a band of visible light that peaks 545nm.

<Specifications>

1. Product Name: Pure Green LED Lamp
2. Type Number: L545-01
3. Chip:
  - Chip material: InGaN
  - Peak Wavelength: 545nm typ.
4. Package
  - Type: Φ5mm Clear Molding
  - Resin Material: Epoxy Resin
  - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Tc=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	190	W
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	300	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

\* Duty 1% and Pulse Width=10us

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

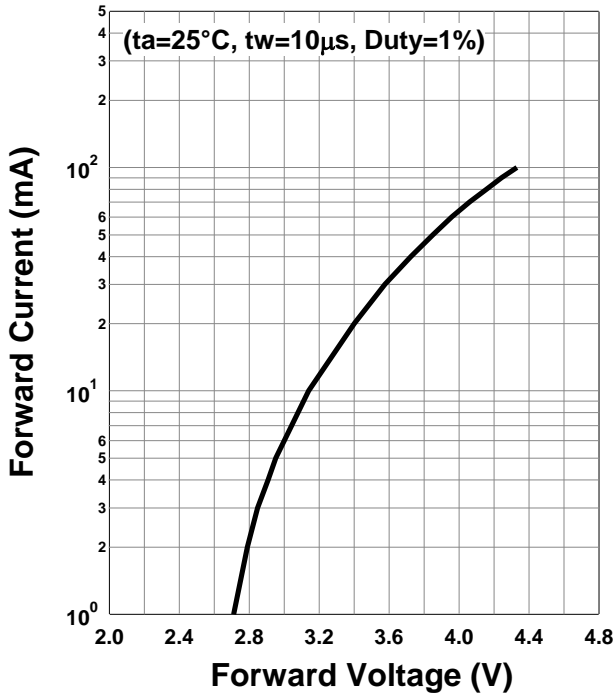
Electro-Optical Characteristics[Tc=25°C]						
Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=20mA		3.4	3.8	V
	VFP	IPF=100mA		4.3		
Total Radiated Power*	PO	IF=20mA		3.2		mW
		IPF=100mA		11		
Radiant Intensity**	IE	IF=20mA		27		mW/sr
		IPF=100mA		98		
Luminous Flux	ΦV	IF=20mA		2200		
Peak Wavelength	λP	IF=20mA	535		555	nm
Dominant Wavelength	λD	IF=20mA		555		
Half Width	Δλ	IF=20mA		39		nm
Viewing Half Angle	θ1/2	IF=20mA		±8		deg
Rise Time	tr	IF=20mA		15		ns
Fall Time	tf	IF=20mA		30		ns

\* Measured by S3584-08

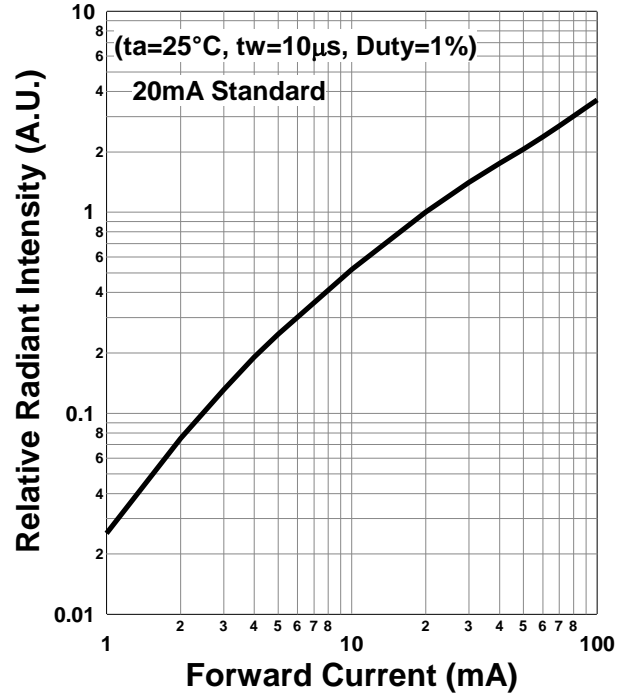
\*\* Measured by CIE127-2007 Condition B



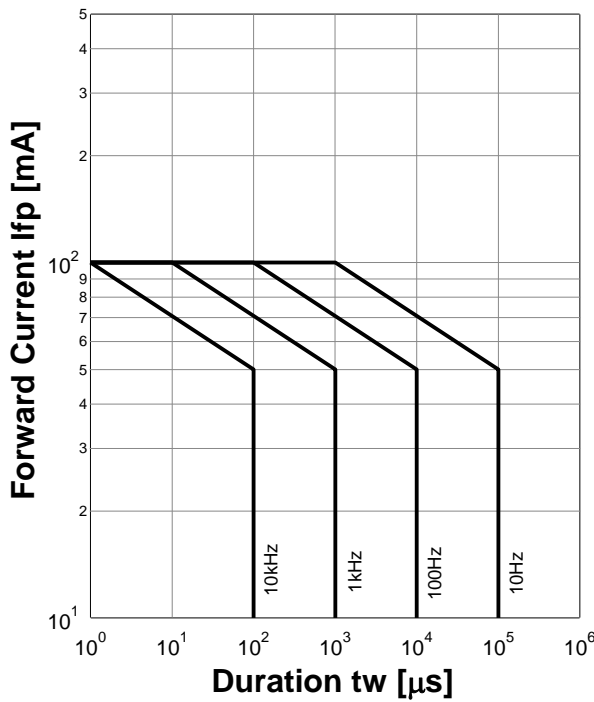
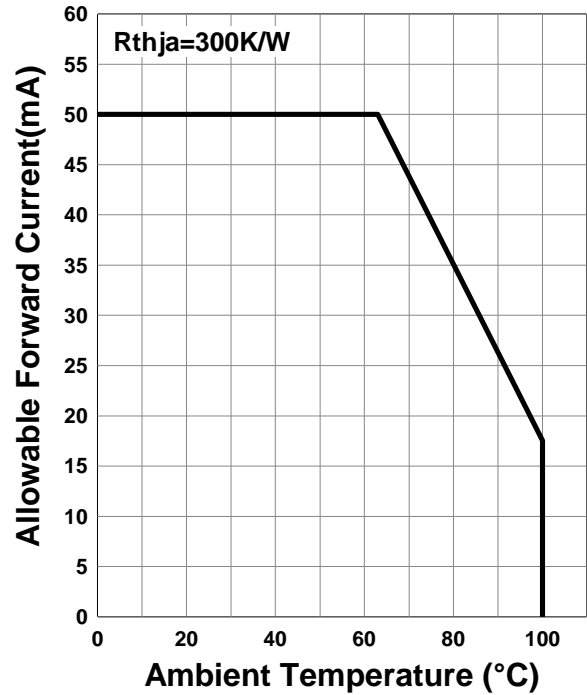
**Forward Current - Forward Voltage**

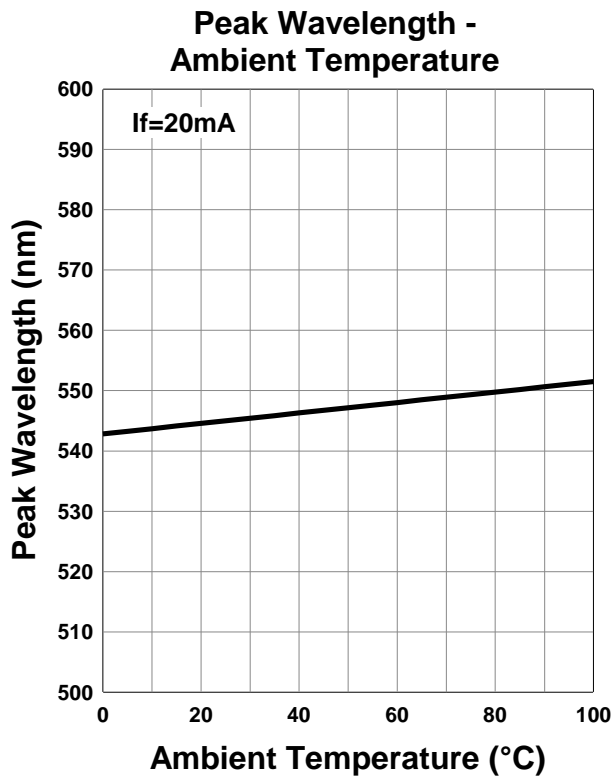
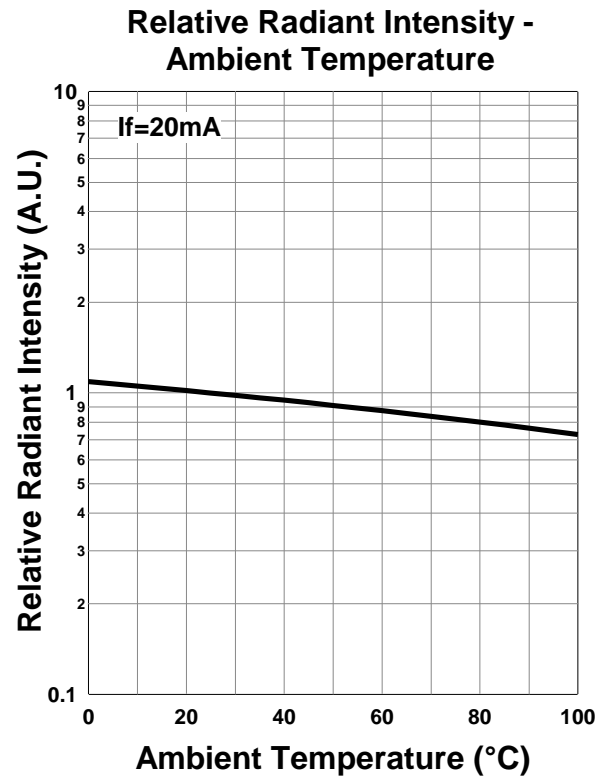
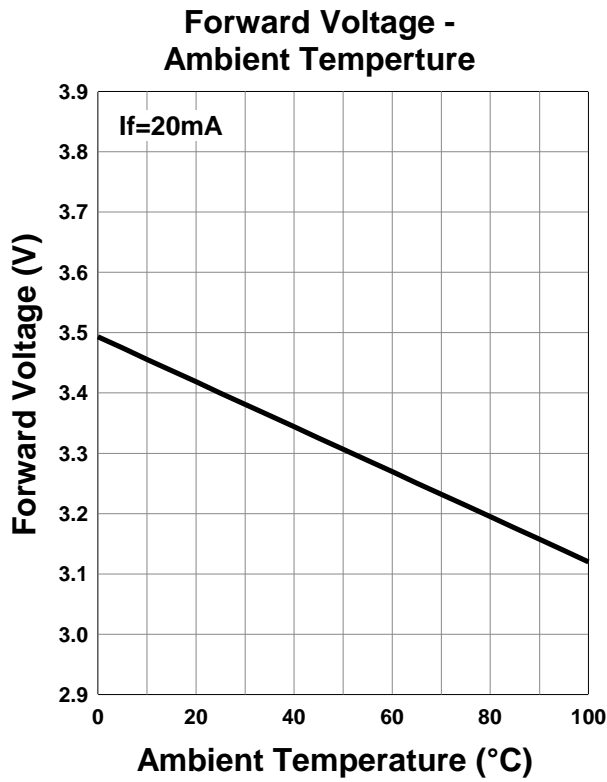


**Relative Radiant Intensity - Forward Current**

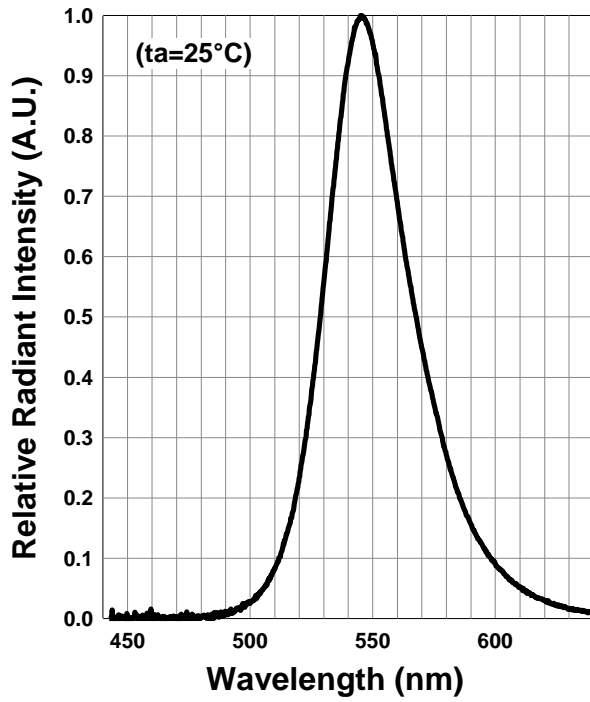


**Allowable Forward Current - Ambient Temperature**

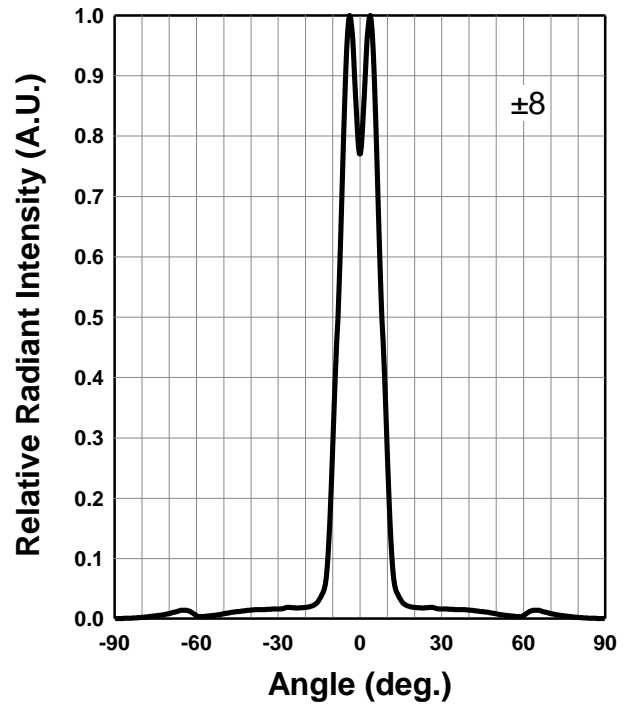




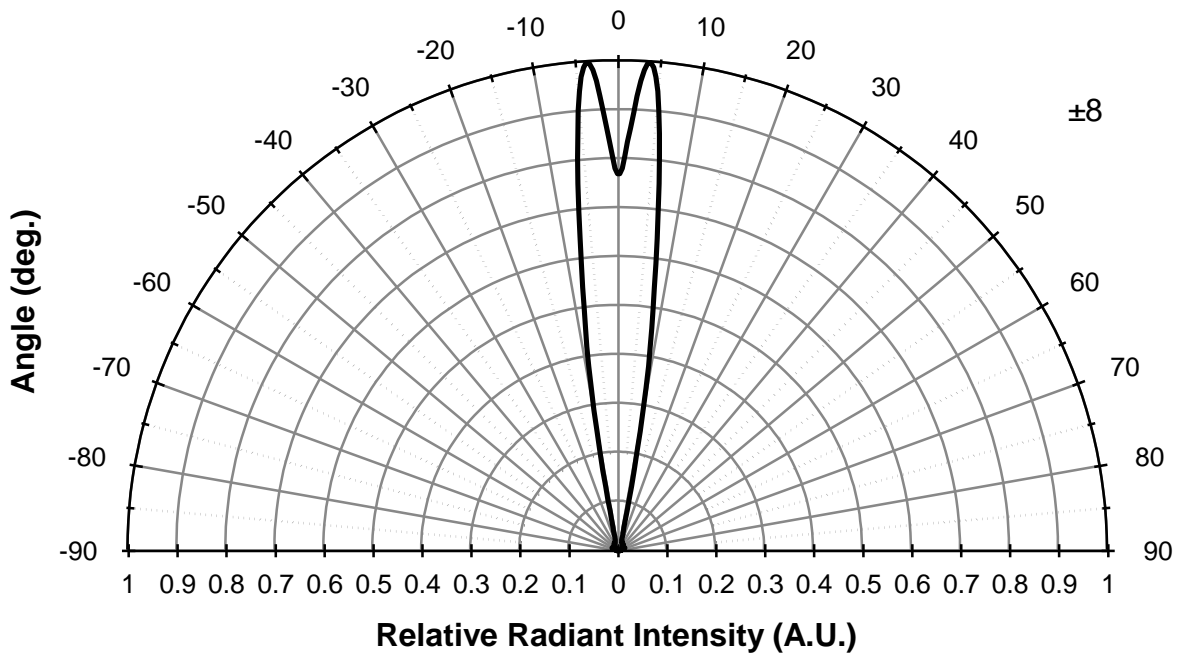
**Relative Spectral Emission**



**Radiation Characteristics**



**Radiation Characteristics**



**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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