

L525-04

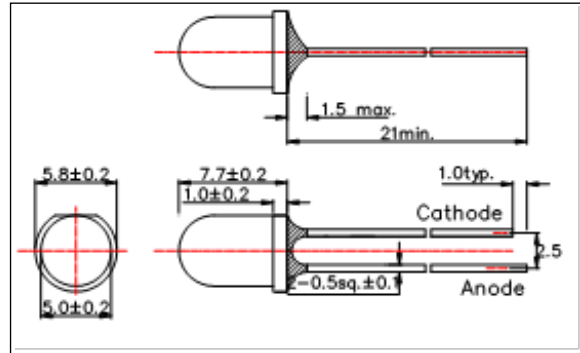
Super Bright Green LED

L525-04 is an InGaN LED mounted on a lead frame with a clear epoxy lens.
On forward bias, it emits a special band of radiation, which peaks at 525nm.

<Specifications>

1. Product Name: Green LED Lamp
2. Type Number: L525-04
3. Chip:
 - Chip material: InGaN
 - Peak Wavelength: 525nm typ.
4. Package
 - Type: Φ5mm clear molding
 - Resin Material: Epoxy 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	200	mW
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	250	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	250	°C

* Duty=1% and Pulse Width=10μs.

** Soldering condition must be completed within 5 second at 250 °C.

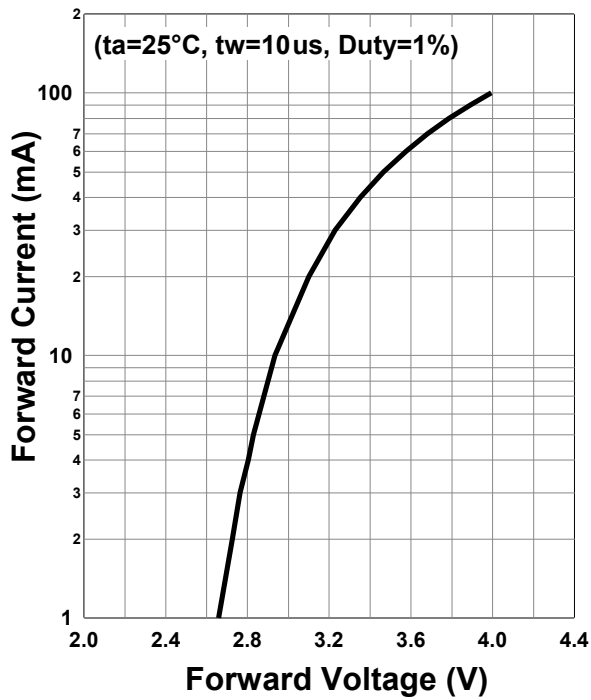
Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.1	4.0	V
	VFP	IFP=100mA		4.0		
Radiated Power*	PO	IF=20mA		11		mW
		IFP=100mA		34		
Radiant Intensity**	IE	IF=20mA		37		mW/sr
		IFP=100mA		115		
Brightness	IV	IF=20mA		9500		mcd
Peak Wavelength	λP	IF=20mA	515	525	535	nm
Dominant Wavelength	λD	IF=20mA		530		nm
Half Width	Δλ	IF=20mA		30		nm
Viewing Half Angle	θ1/2	IF=20mA		± 16		Deg.
Rise Time	tr	IF=20mA		150		ns
Fall Time	tr	IF=20mA		200		ns

* Measured by S3584-08

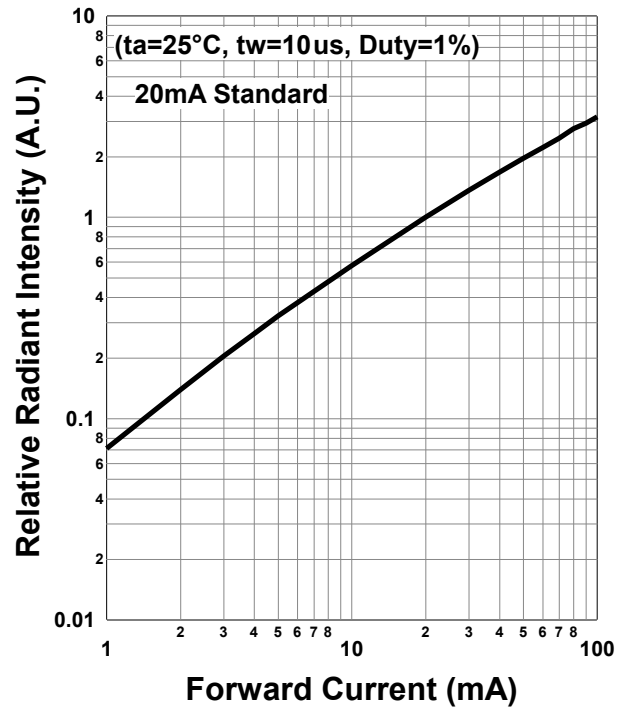
** Measured by CIE127-2007 Condition B.



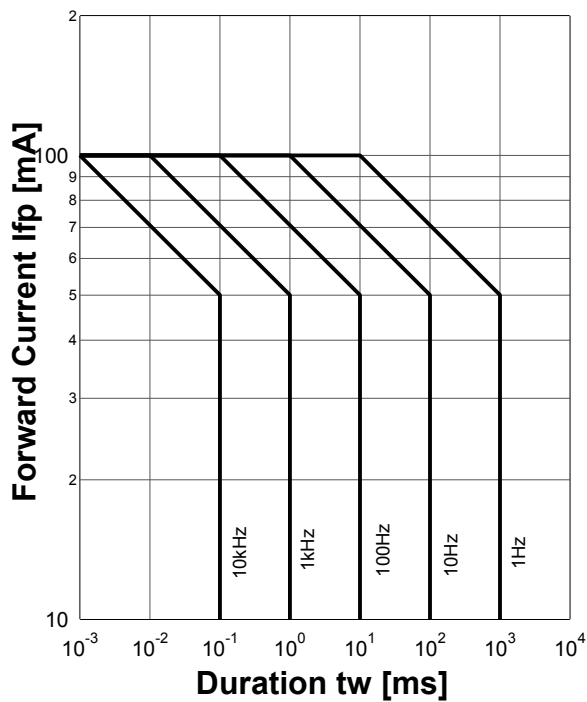
Forward Current - Forward Voltage



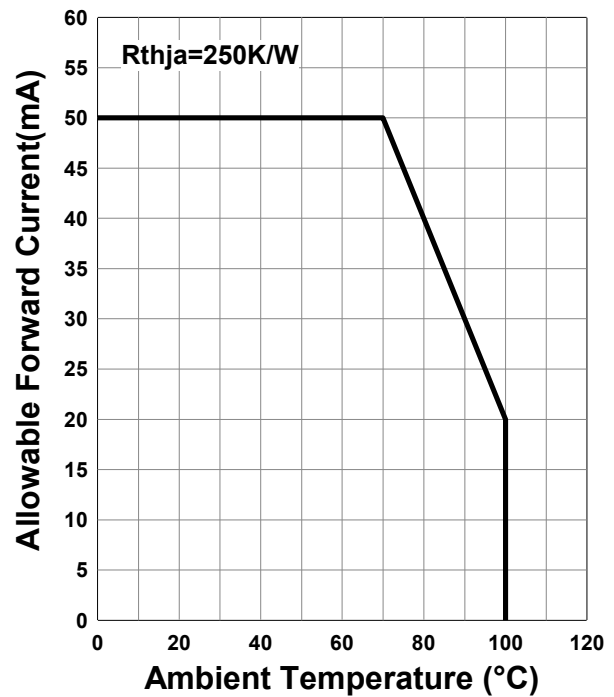
Relative Radiant Intensity - Forward Current

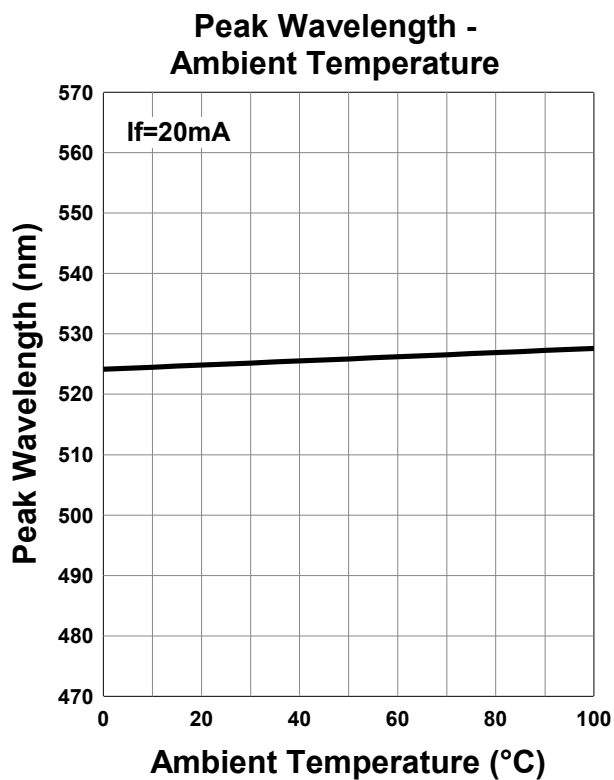
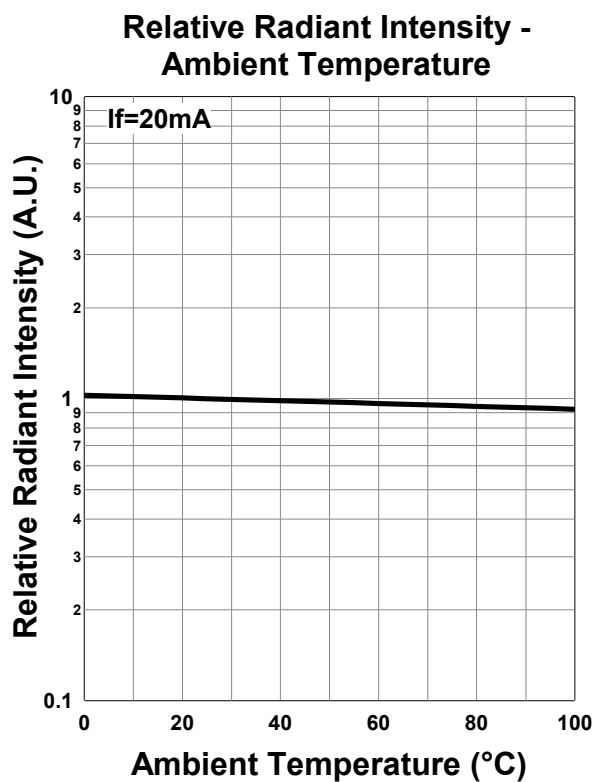
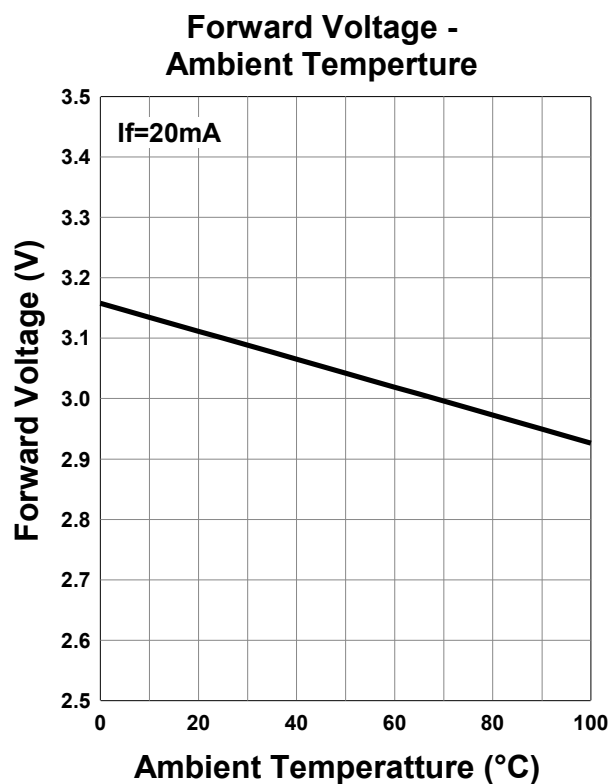


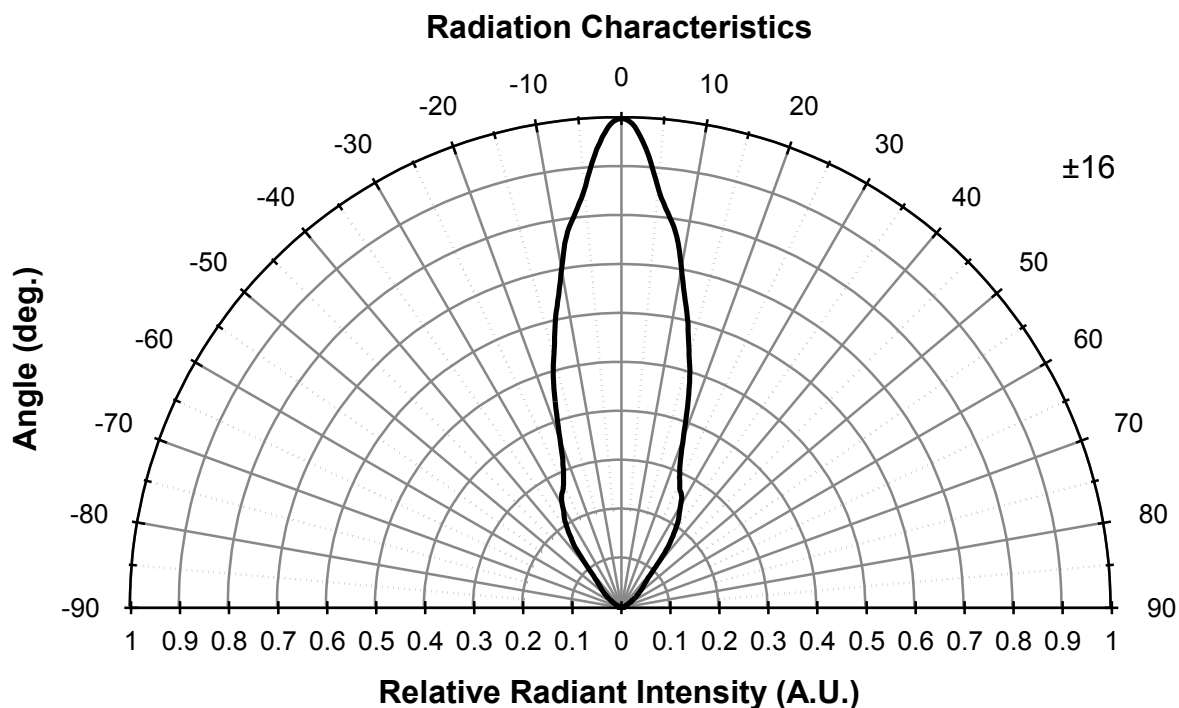
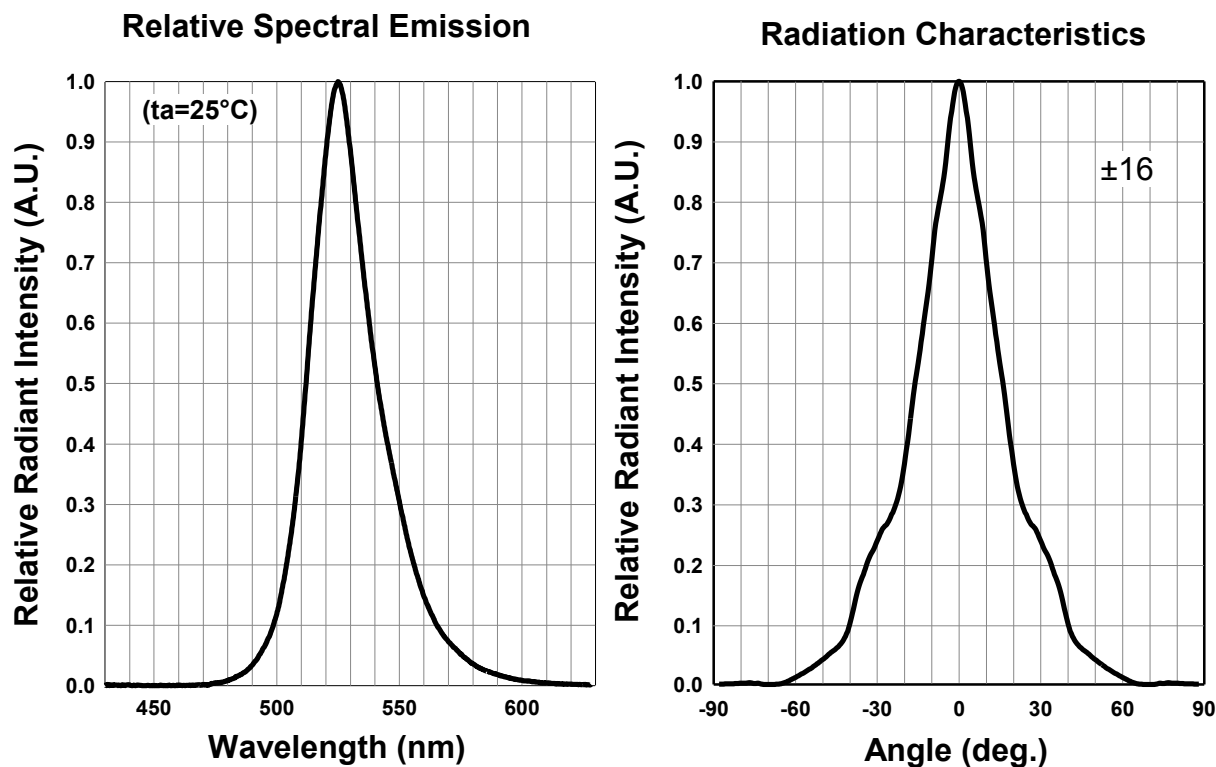
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature







Disclaimer

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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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