

L525-02

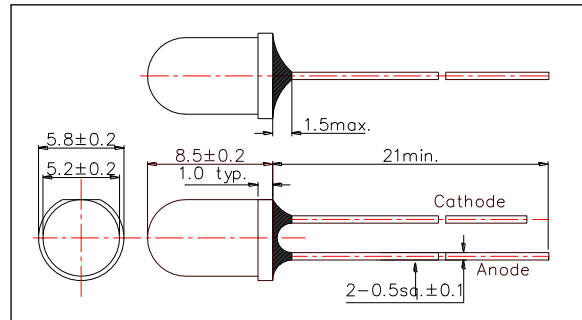
Super Bright Green LED

L525-02 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: L525-02
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.

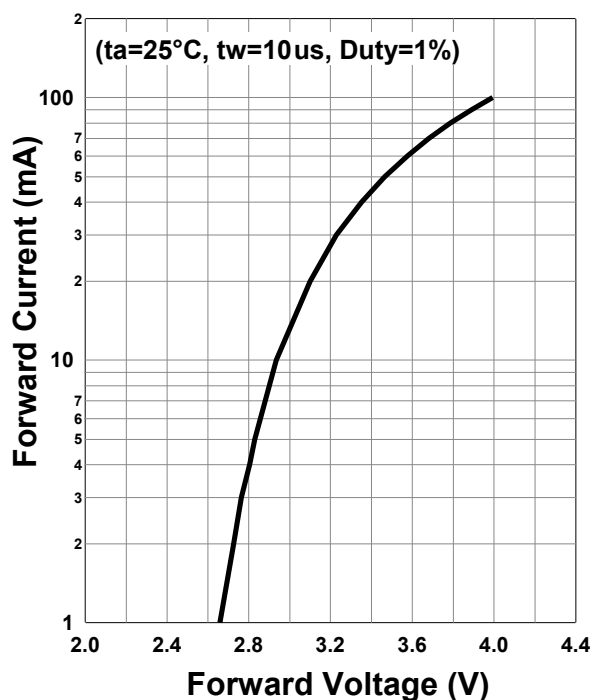
Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.1	4.0	V
	VFP	IFP=100mA		4.0		
Radiated Power*	PO	IF=20mA		11		mW
		IFP=100mA		34		
Radiant Intensity**	IE	IF=20mA		135		mW/sr
		IFP=100mA		425		
Brightness	IV	IF=20mA		63000		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		±4		Deg.
Rise Time	tr	IF=20mA		150		ns
Fall Time	tr	IF=20mA		200		ns

* Measured by S3584-08

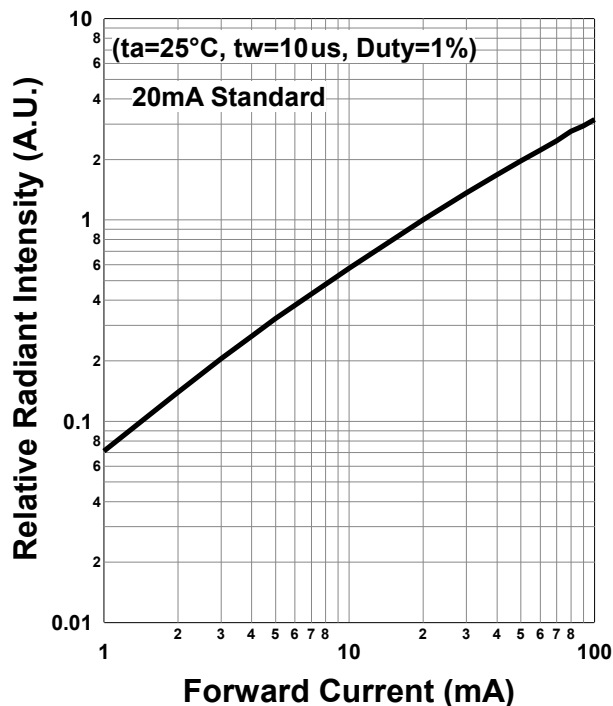
** Measured by CIE127-2007 Condition B.



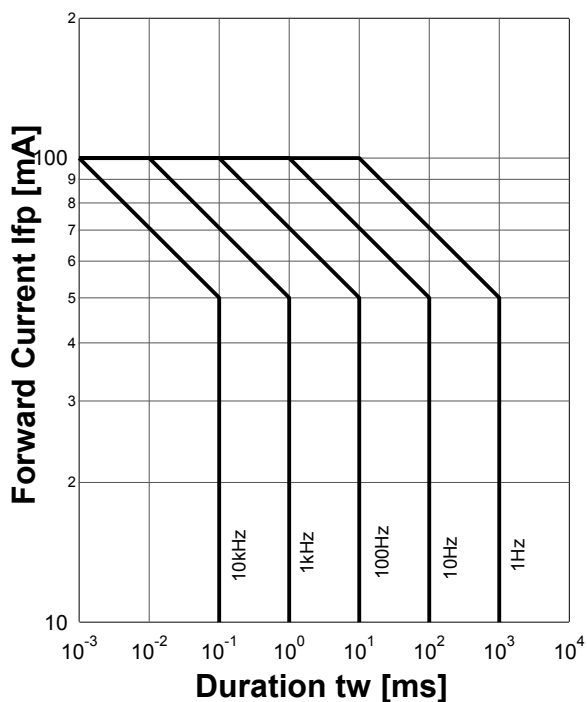
Forward Current - Forward Voltage



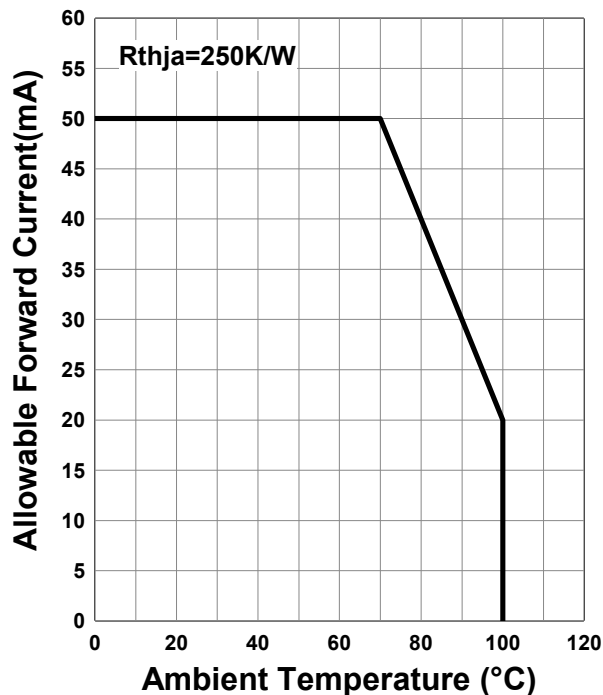
Relative Radiant Intensity - Forward Current

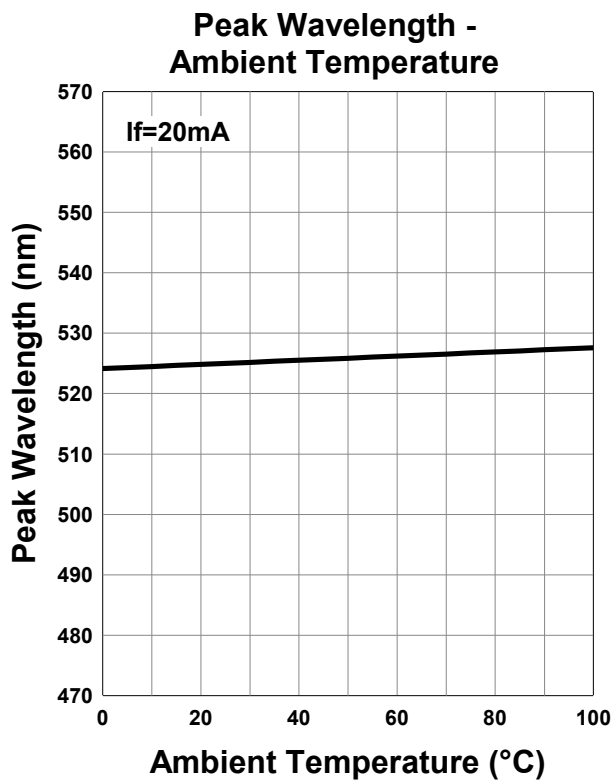
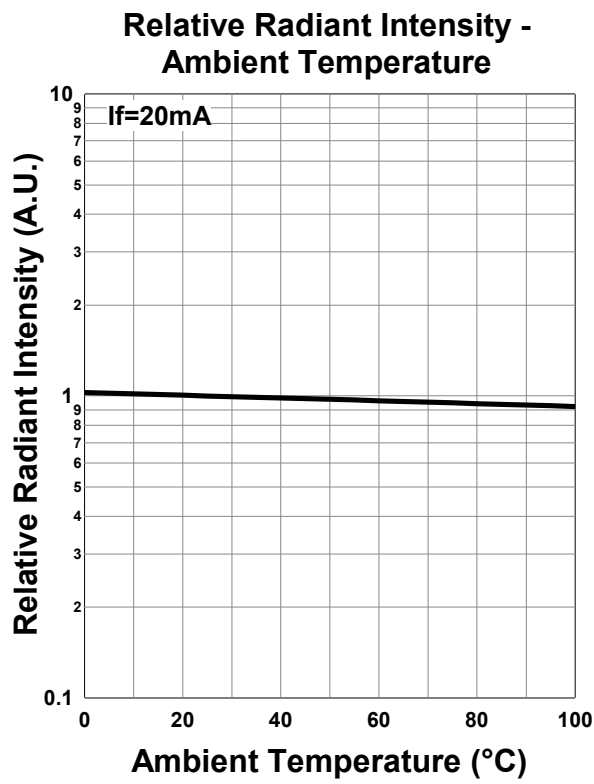
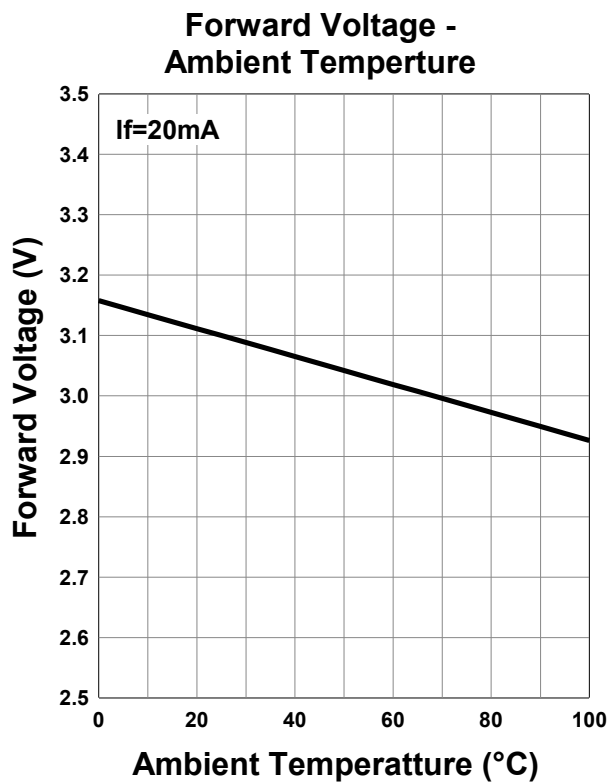


Forward Current - Pulse Duration

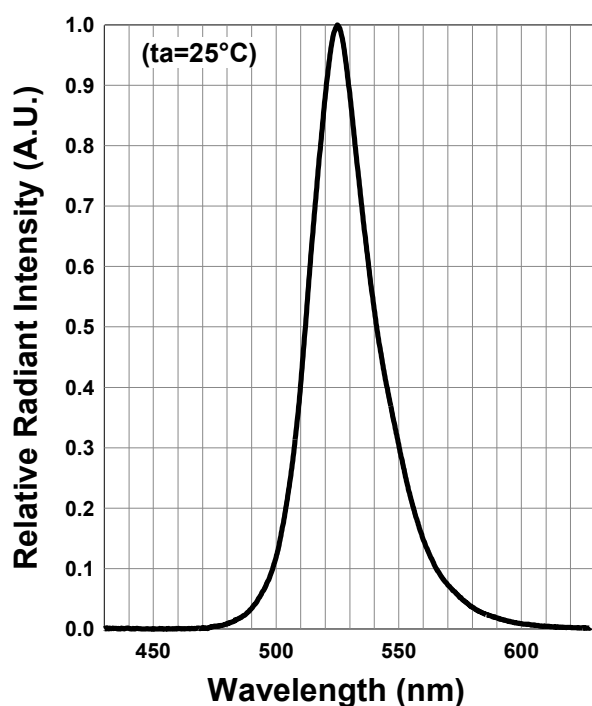


Allowable Forward Current - Ambient Temperature

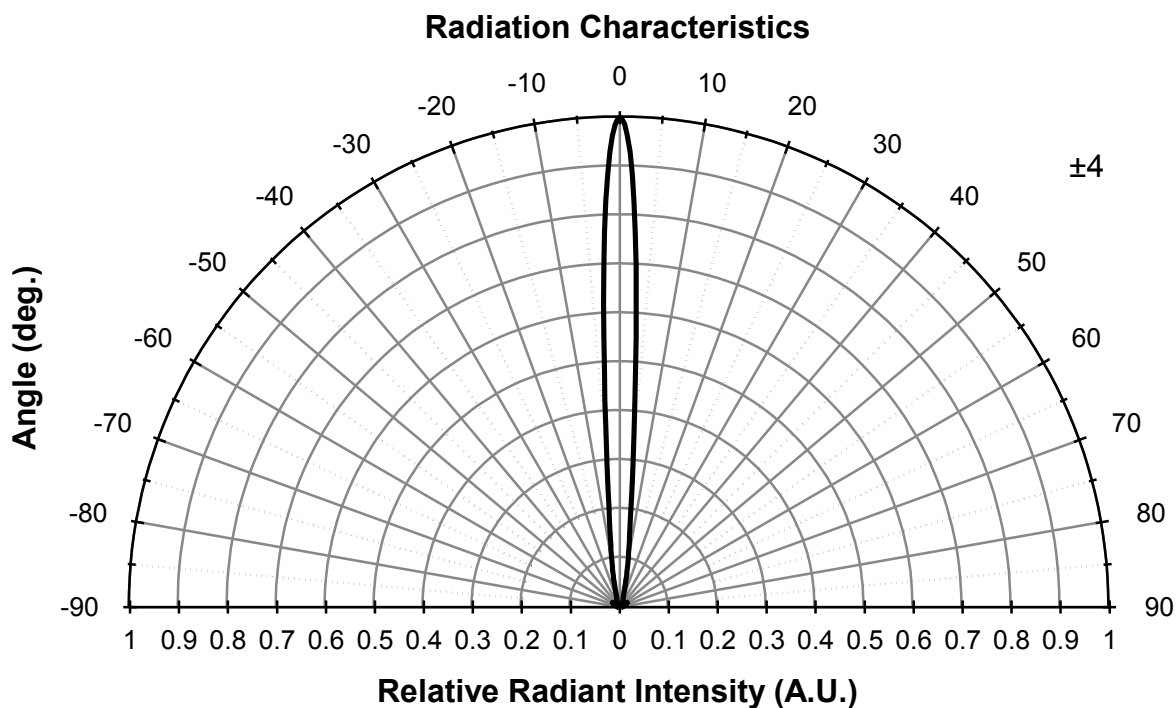
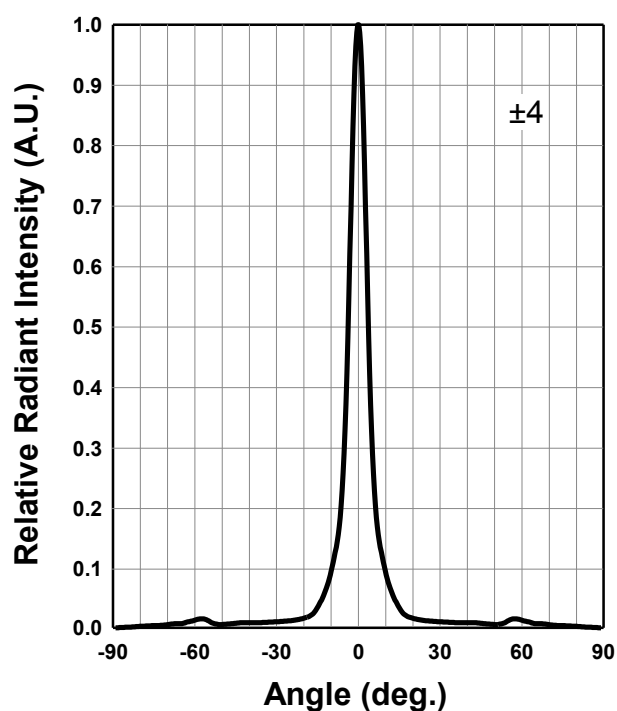




Relative Spectral Emission



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.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.

2014.10