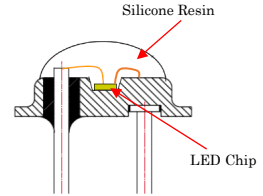
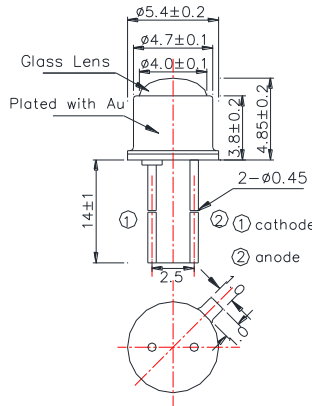


L405-30K42-PC (5.0-7.2mW)
Stem Type LED Lamp

<Specifications>

- Chip Material: InGaN
- Chip Dimension: 350um x 350um
- Number of Chips: 1pcs
- Peak Wavelength: 405nm typ.
- Stem: TO-46 type
- Hermetic Seal
- Resin: Silicone Resin
- Lens: Unspherical Glass
- Cap: Gold Plated

Outer Dimension (Unit:mm)



Internal Structure

Absolute Maximum Ratings [Tc=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	300	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=10us

** Soldering condition must be completed within 5 seconds at 250 °C and is allowed in the area apart 3mm from the bottom of the lamp.

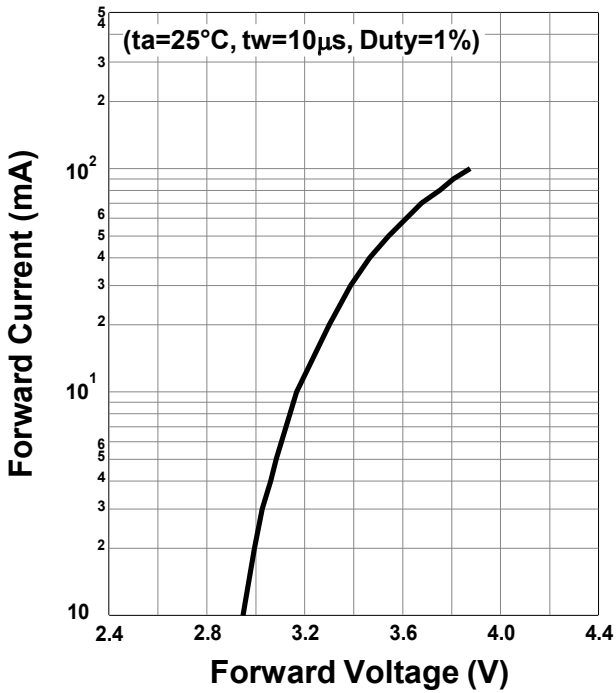
Electro-Optical Characteristics[Tc=25°C]						
Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=20mA		3.3	4.0	V
	VFP	IFP=100mA		3.9		
Total Radiated Power*	PO	IF=20mA	5.0		7.2	mW
		IFP=100mA		22		
Radiant Intensity**	IE	IF=20mA		140		mW/sr
		IFP=100mA		540		
Peak wavelength	λP	IF=20mA	400		410	nm
Half Width	Δλ	IF=20mA		19		nm
Viewing Half Angle	θ1/2	IF=20mA		±5		deg
Rise Time	tr	IF=20mA		10		ns
Fall Time	tf	IF=20mA		15		ns

* Measured by S3584-08

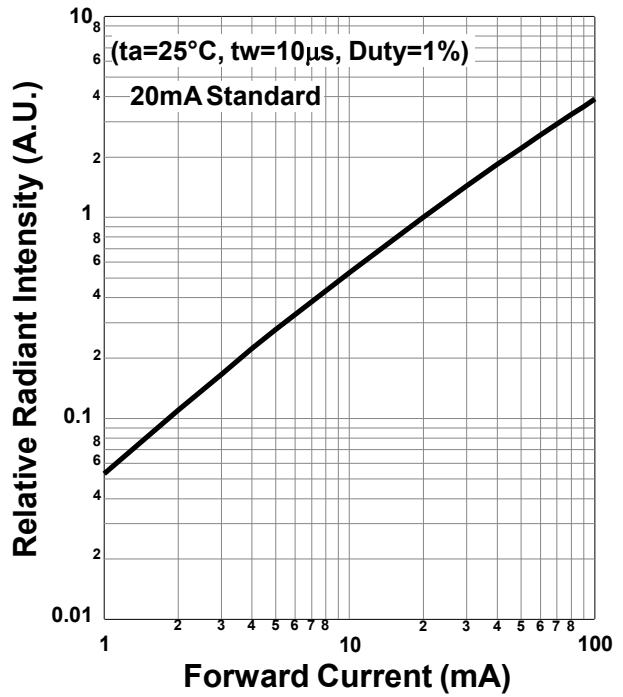
** Measured by CIE127-2007 Condition B



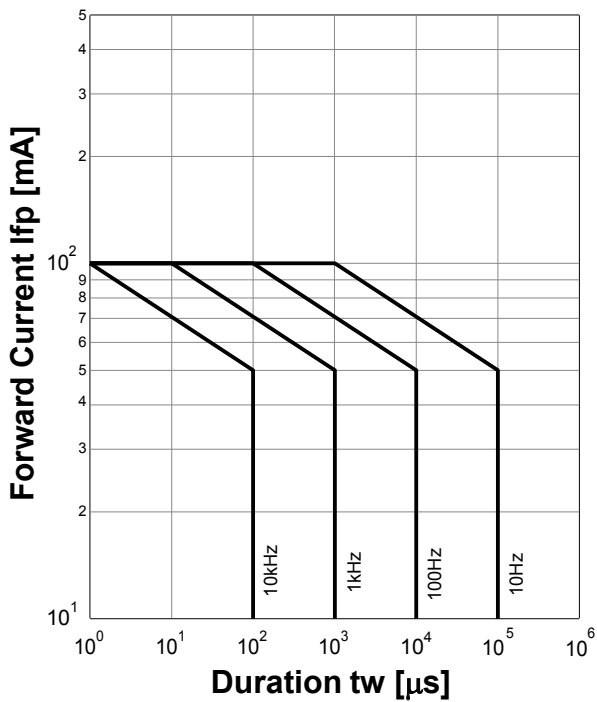
Forward Current - Forward Voltage



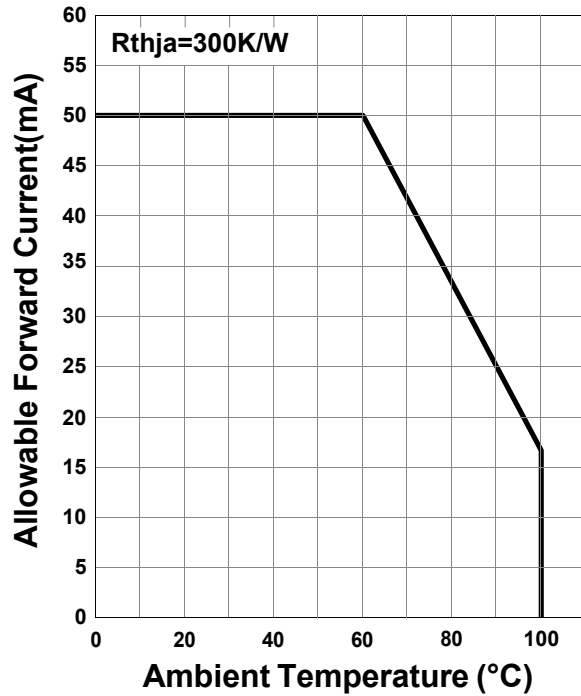
Relative Radiant Intensity - Forward Current

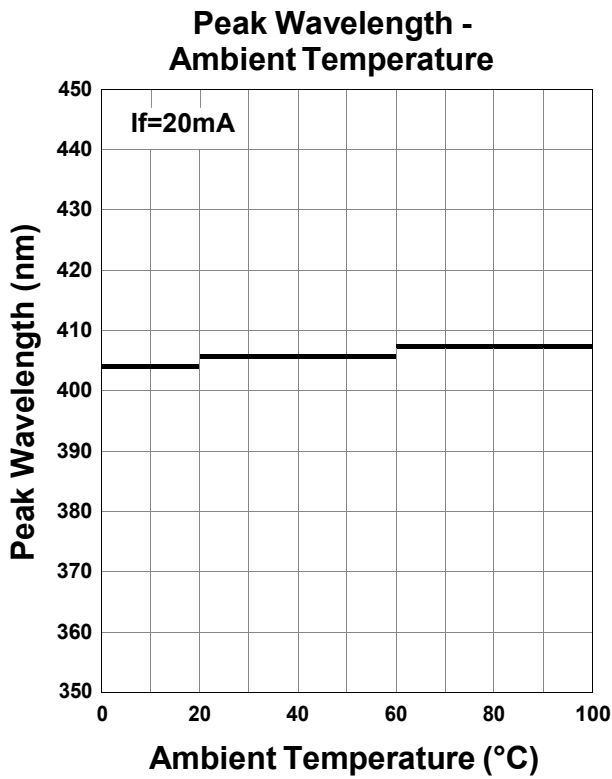
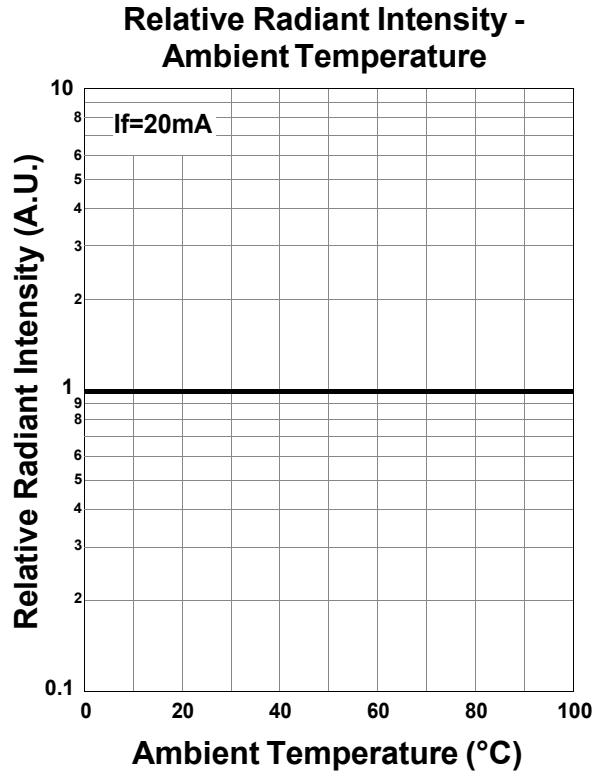
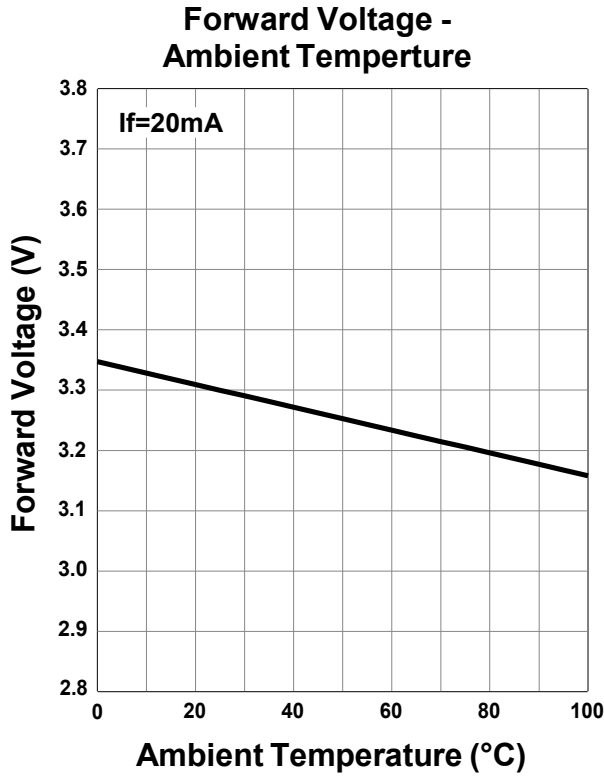


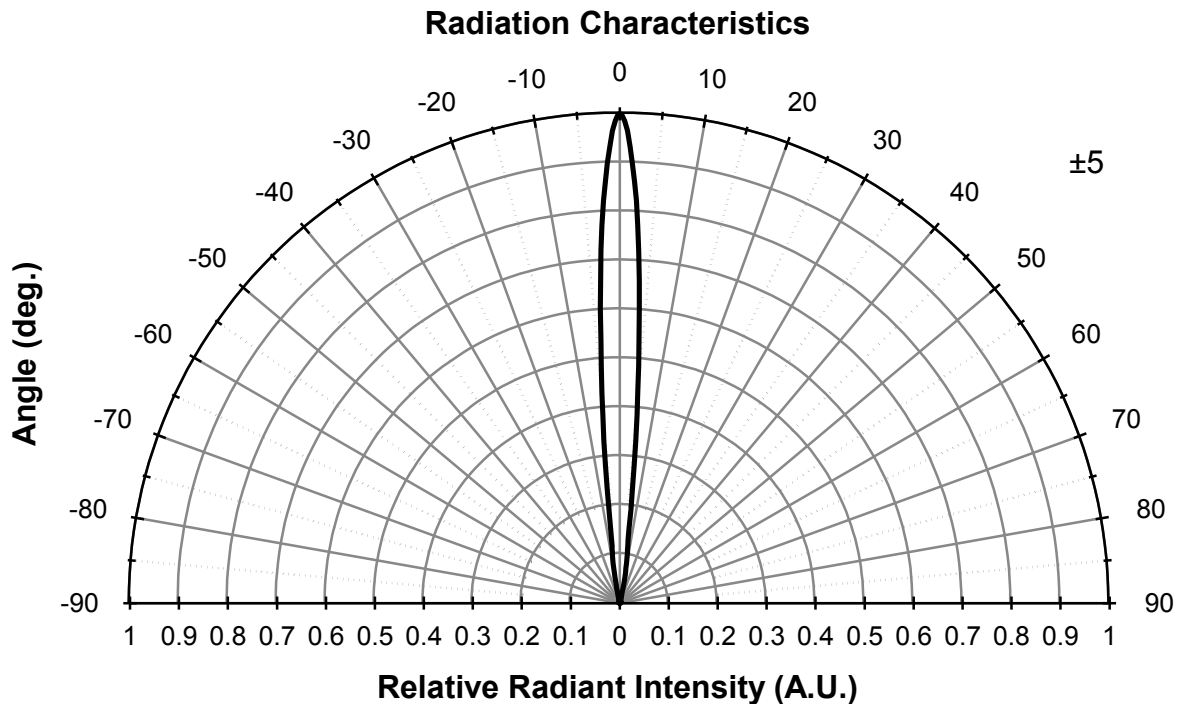
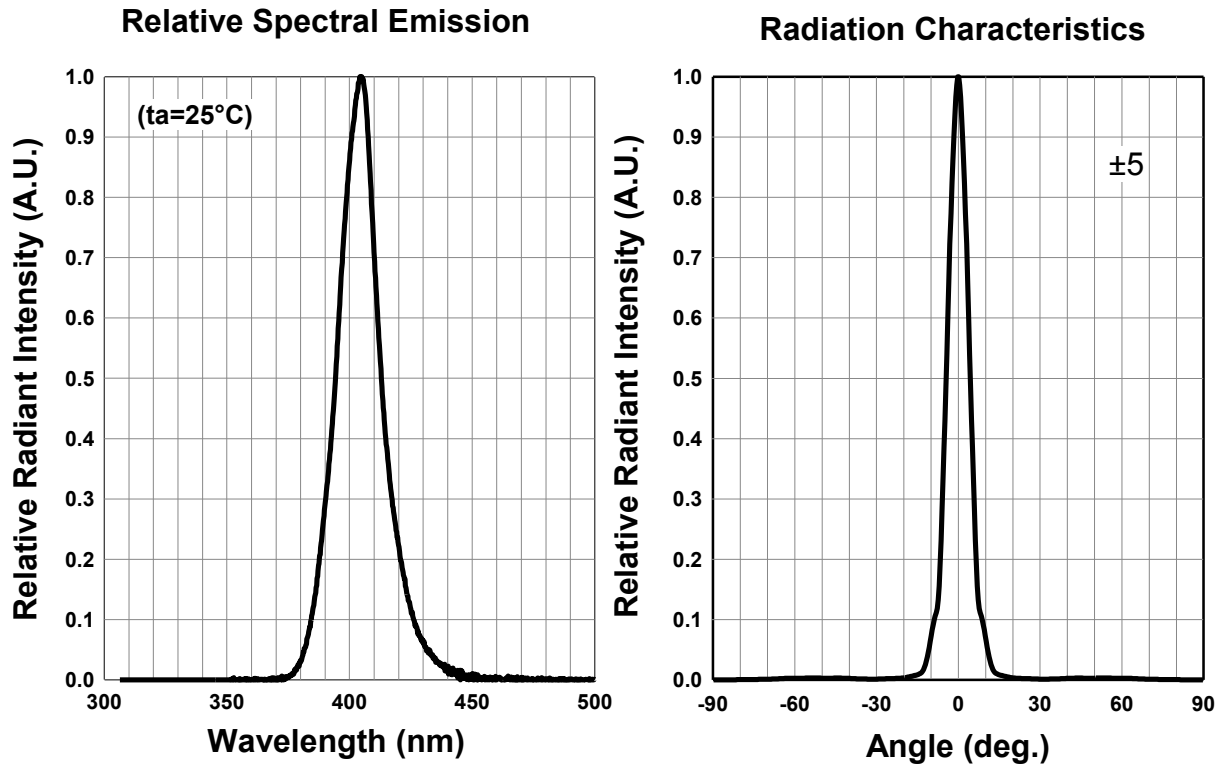
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature







Reliability

There is a leak test for hermetic sealing.

The test is performed by placing units to be tested in a chamber and then pressurizing that container with Helium.

Pressures of 5 ATM for 1 hour. The units are removed and then placed in a leak detector. A vacuum is drawn. If there is a leak, Helium comes out of the packages and can be detected. It can detect leak rates to 5×10^{-9} Pam³/s and below.

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.