

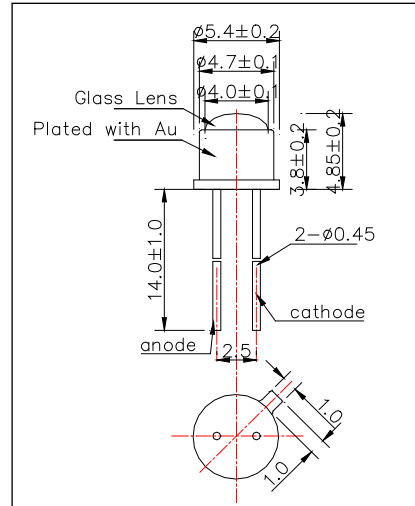
L660N-30K42L High Beam Red LED

This product is an AlGaInP LED mounted on TO-46 stem with hermetically sealed with spherical glass ball lens can, being designed for high beam uses. On forward bias it emits a spectral band of radiation, which peaks at 665nm.

<Specifications>

1. Product Name: LED Lamp
2. Type Number: L660N-30K42N
3. Chip:
 - Chip material: AlGaInP
 - Deimansion: 300um x 300um
 - Peak Wavelength: 665nm
4. Package
 - Stem: TO-46 Stem
 - Lens: Spherical Glass Lens
 - Cap: Gold Plated

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	110	mW
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	500	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	180	K/W
Junction Temperature	Tj	100	°C
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Duty=1% and Pulse Width=10μs

** Soldering condition must be completed within 3 seconds at 265°C

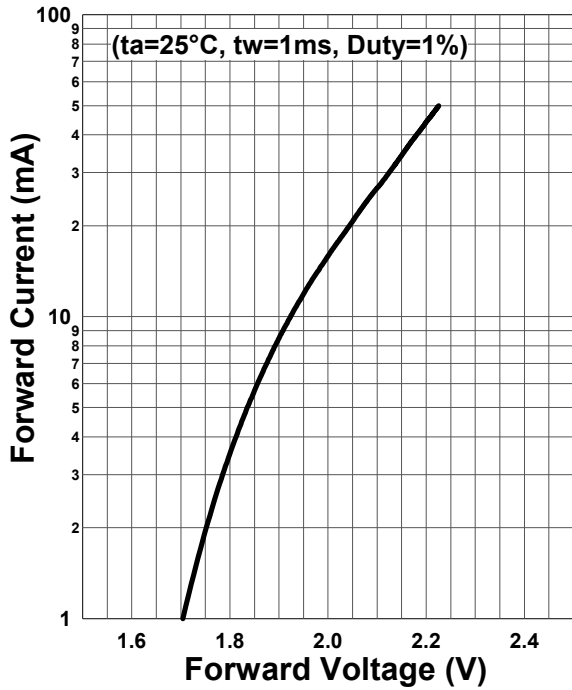
Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		2.0	2.2	V
		IF=50mA		2.2	2.4	
Radiated Power*	PO	IF=20mA		4.5		mW
Radiant Intensity**	IE	IF=20mA		70		mW/sr
Peak Wavelength	λP	IF=20mA	655	665	675	nm
Half Width	Δλ	IF=20mA		18		nm
Dominant Wavelength	λD	IF=20mA		648		nm
Centroid Wavelength	λC	IF=20mA		661		nm
Viewing Half Angle	θ1/2	IF=20mA		±4.2		deg

* Measured by S3584-08

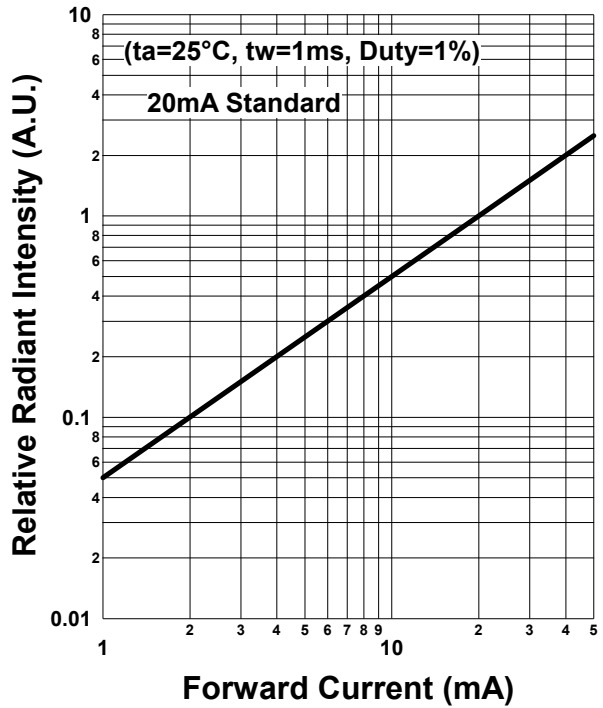
** Measured by Tektronix J-6512



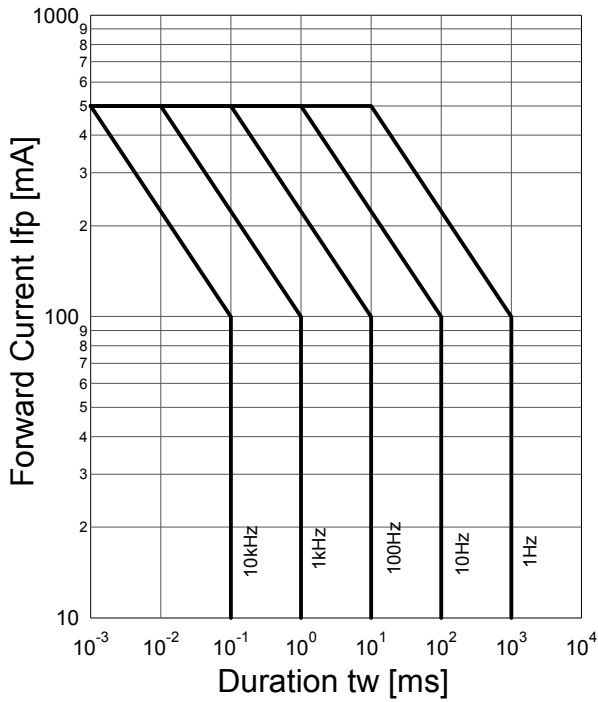
Forward Current - Forward Voltage



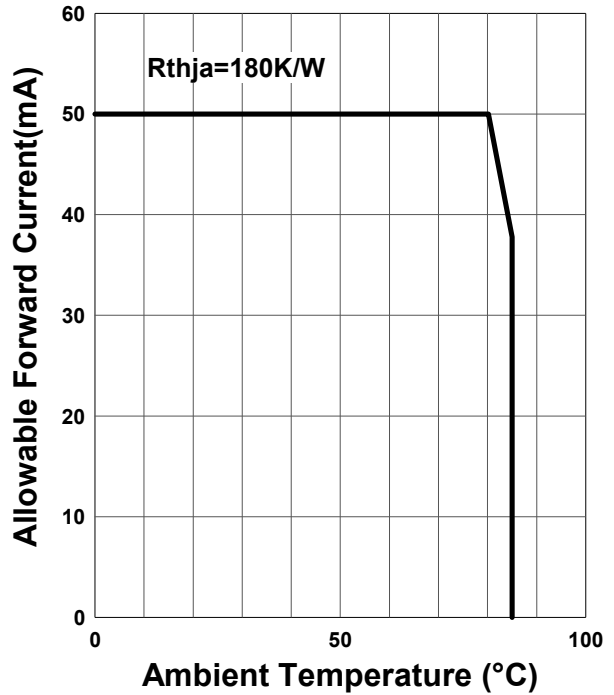
Relative Radiant Intensity - Forward Current



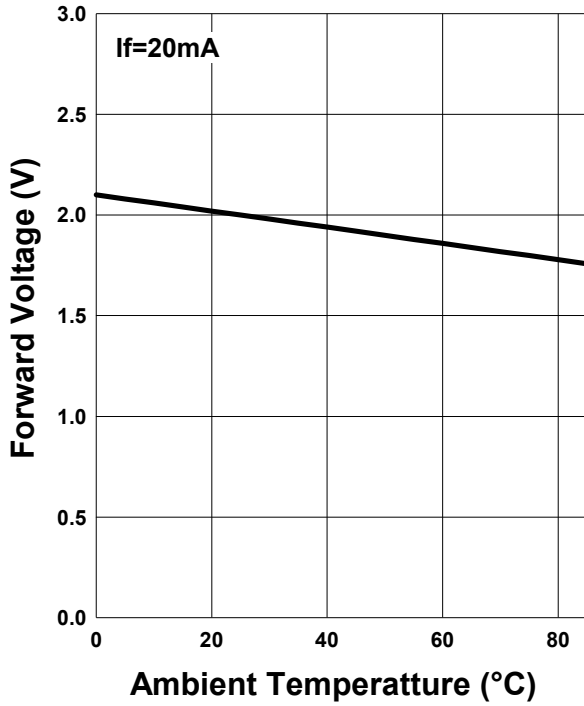
Forward Current - Pulse Duration



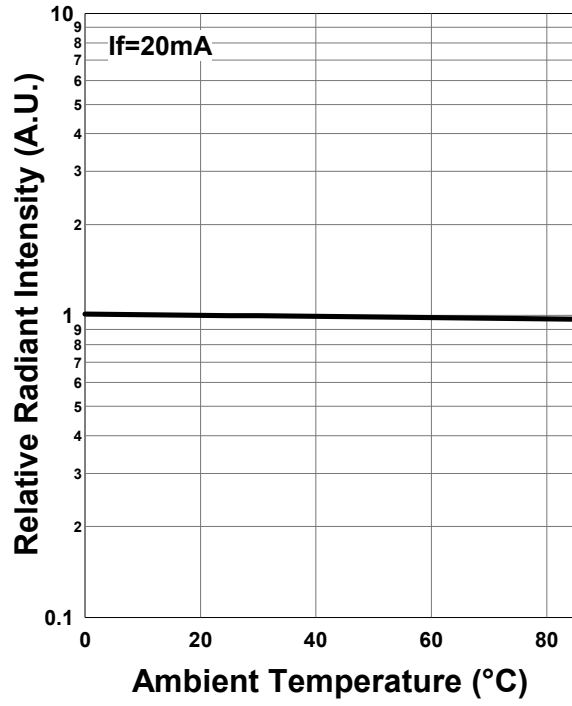
Allowable Forward Current - Ambient Temperature



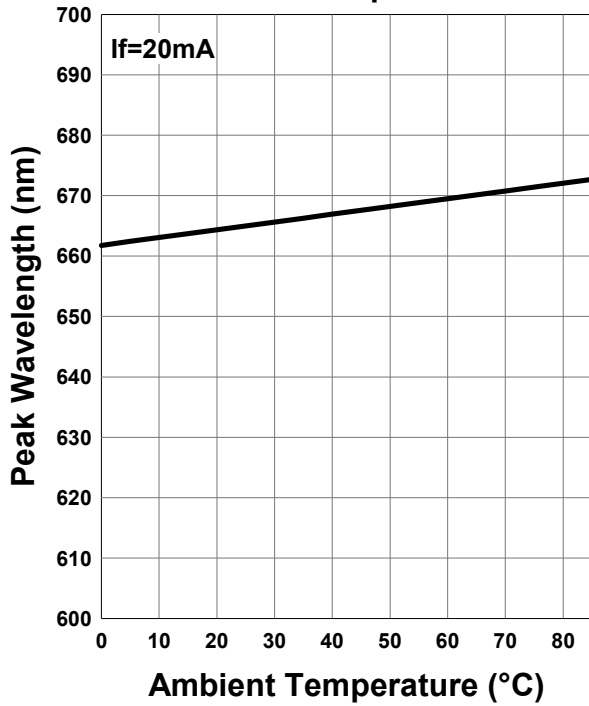
Forward Voltage - Ambient Temperature

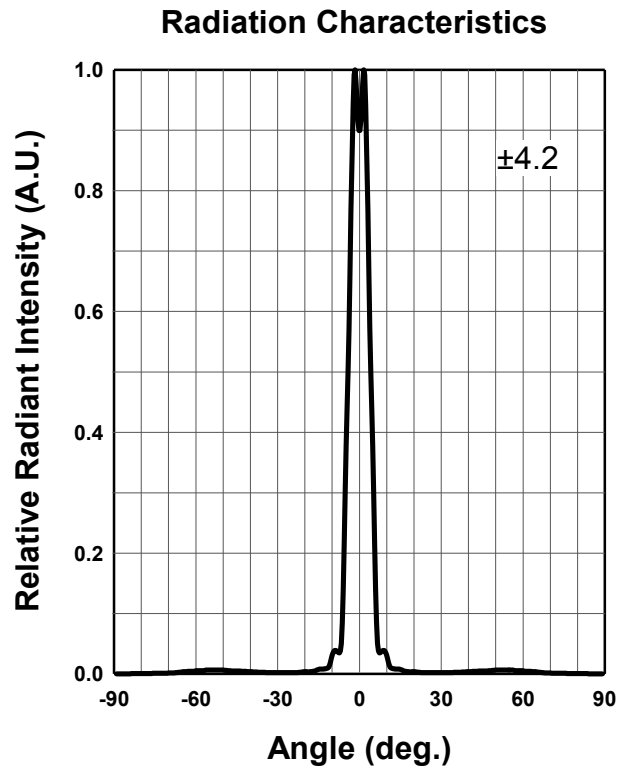
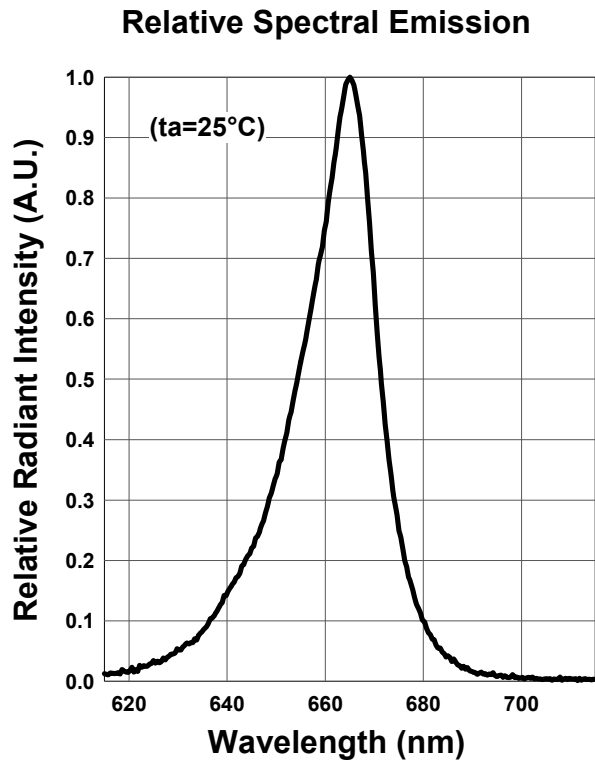


Relative Radiant Intensity - Ambient Temperature



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.

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.

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