

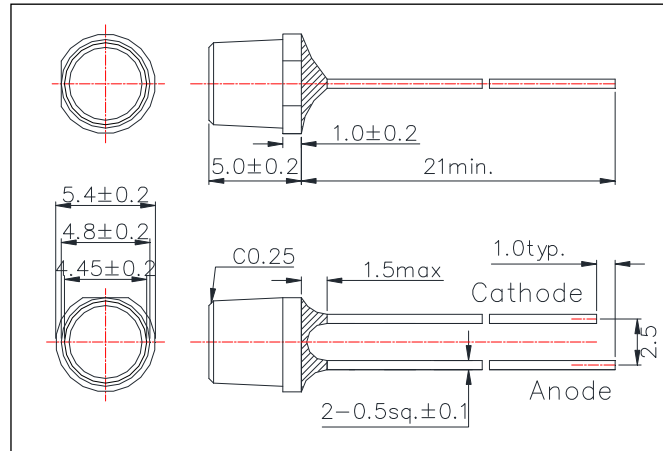
L630-05

Super Bright Red LED Lamp

<Specifications>

- Chip Material: AlInGaP
- Chip Dimension: 350um x 350um
- Number of Chips: 1pc
- Peak Wavelength: 630nm typ.
- Package Type: Φ5mm Clear Molding
- Lead Frame: Soldered (Lead Free)
- Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Tc=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	120	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		2.0	2.3	V
	VFP	IPF=100mA		2.3		
Total Radiated Power*	PO	IF=20mA		9.5		mW
		IPF=100mA		44		
Radiant Intensity**	IE	IF=20mA		2.7		mW/sr
		IPF=100mA		12		
Luminous Flux	ΦV	IF=20mA		2000		
Peak Wavelength	λP	IF=20mA	620		640	nm
Dominant Wavelength	λD	IF=20mA		622		
Half Width	Δλ	IF=20mA		15		nm
Viewing Half Angle	θ1/2	IF=20mA		±47		deg
Rise Time	tr	IF=20mA		10		ns
Fall Time	tf	IF=20mA		10		ns

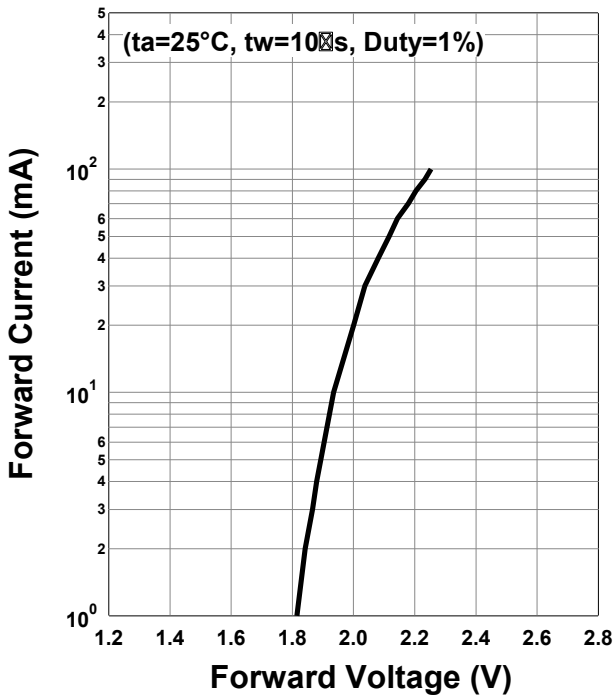
* Measured by S3584-08

** Measured by Tektronix J-16

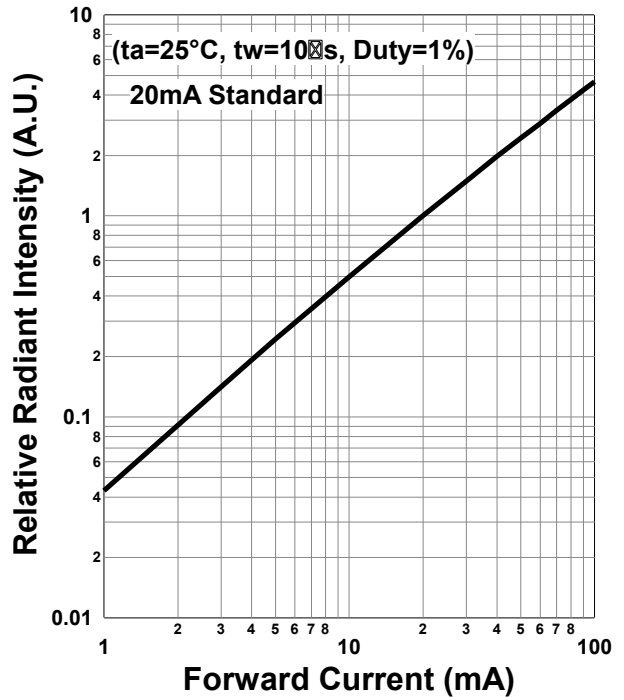


Typical Characteristic Curves

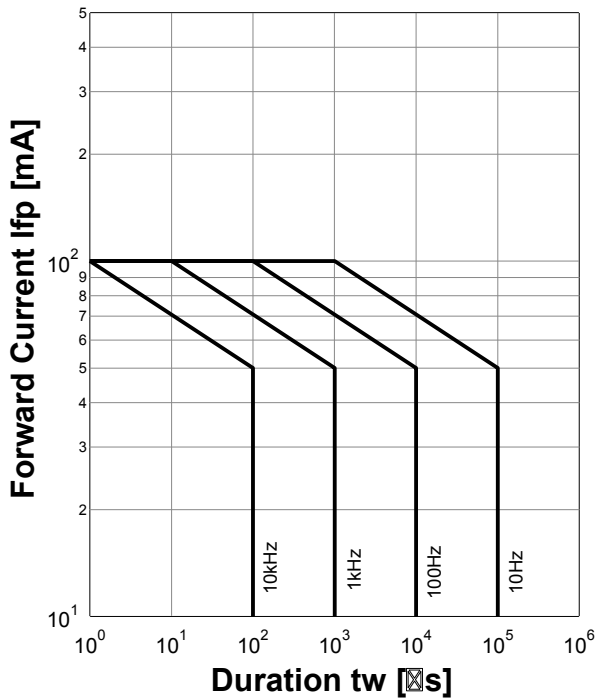
Forward Current - Forward Voltage



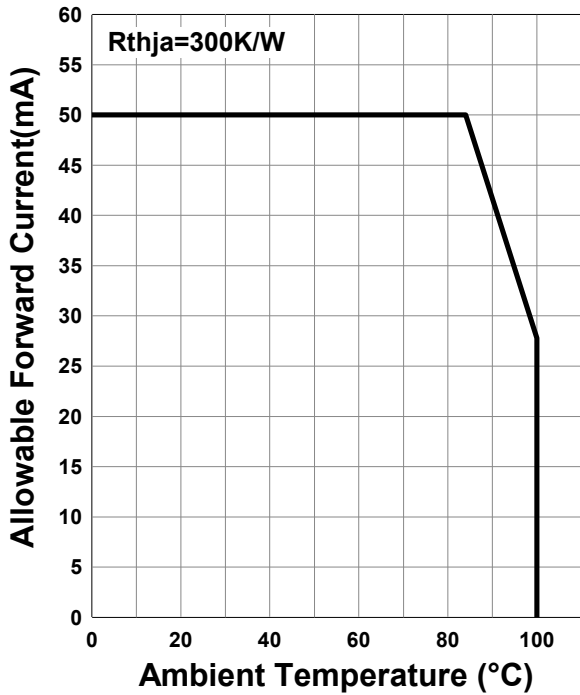
Relative Radiant Intensity - Forward Current

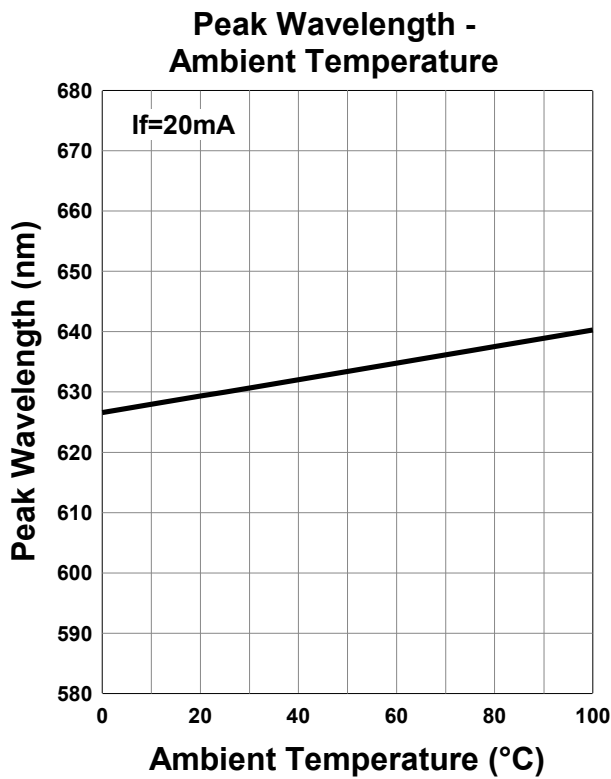
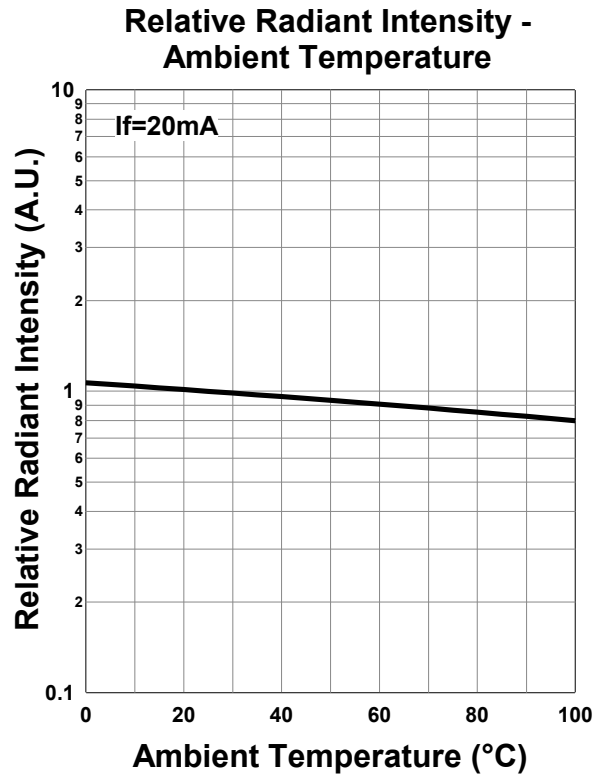
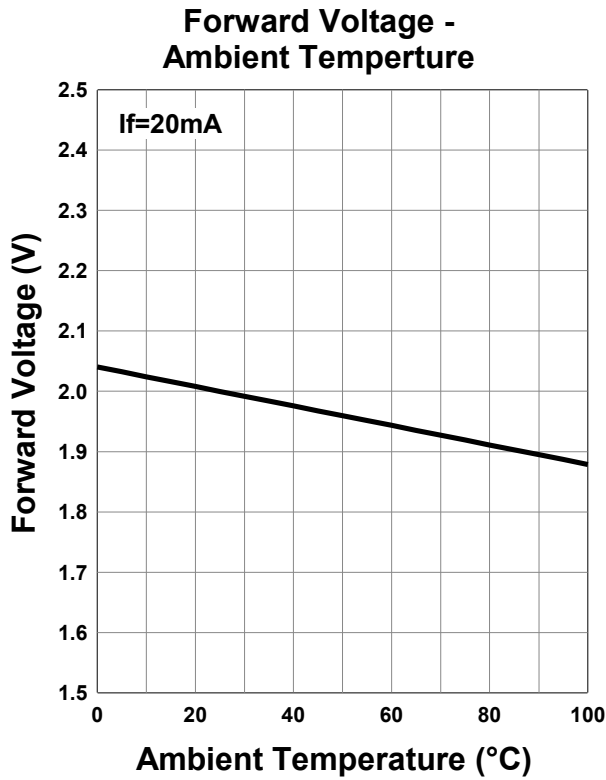


Forward Current - Pulse Duration

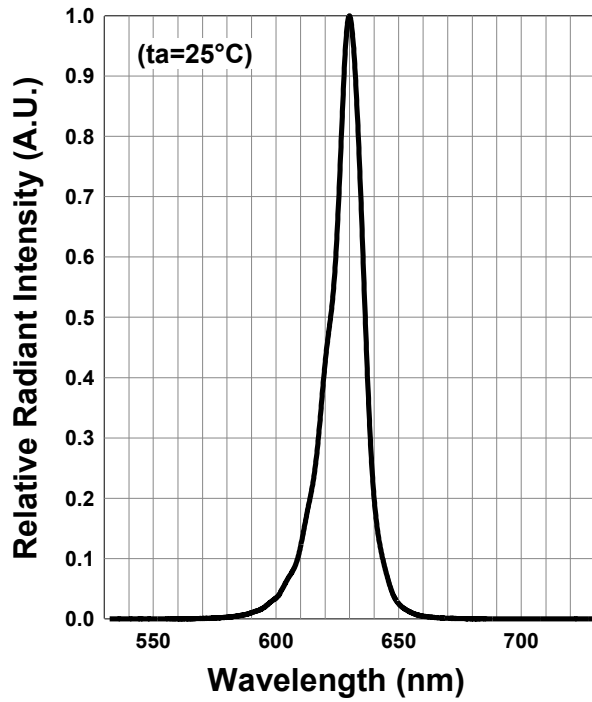


Allowable Forward Current - Ambient Temperature

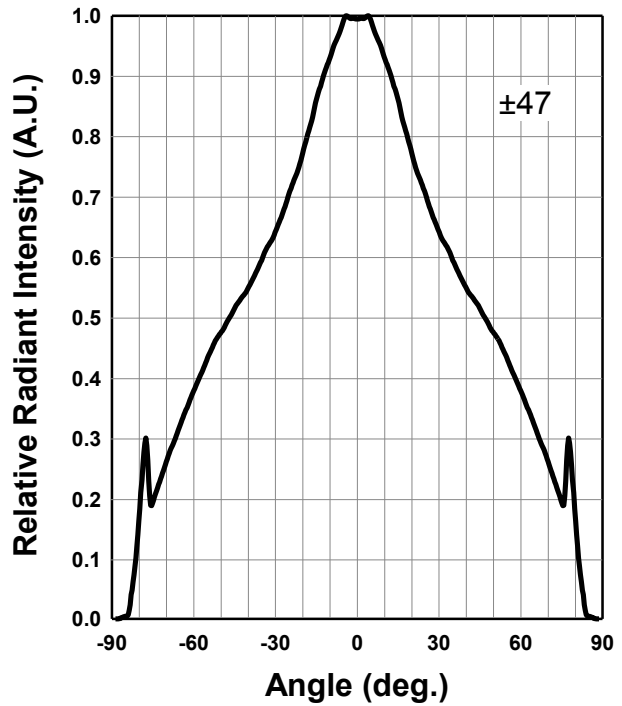




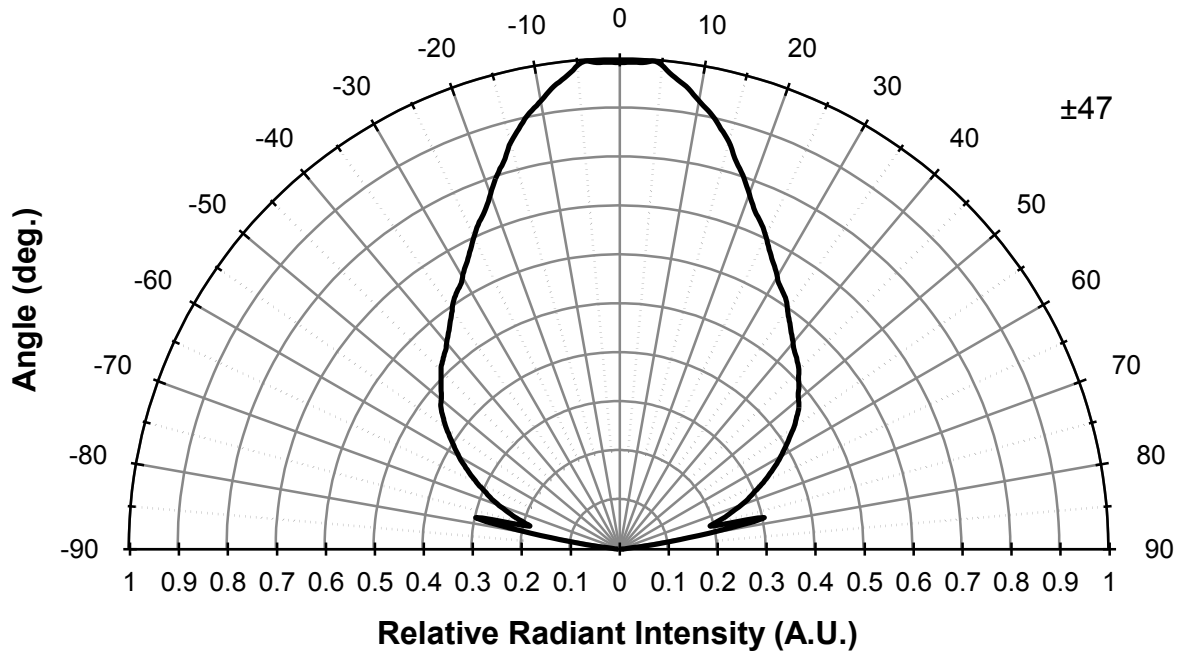
Relative Spectral Emission



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.

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.

2018.03