Lead (Pb) Free Product – RoHS Compliant

L660N-36

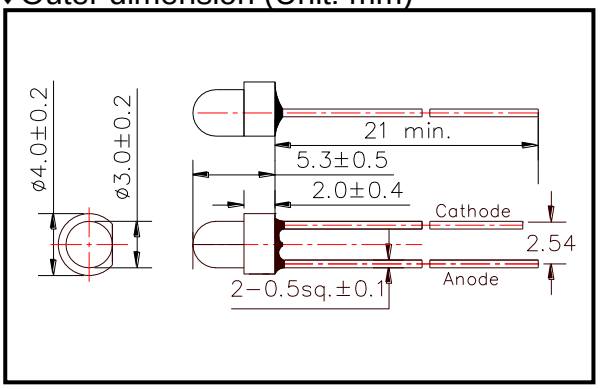
High Bright Red LED Lamp

L660N-36 is an AlGaInP LED mounted on a lead frame with a clear epoxy lens.
This is designed for the highest Po and damp proof.
On forward bias it emits a band of visible light, which peaks 660nm.

♦Specifications

1)	Product Name	Red LED Lamp
2)	Type No.	L660N-36
3)	Chip	
(1)	Chip Material	AlGaInP
(2)	Peak Wavelength	660nm typ.
4)	Package	
(1)	Type	Φ3mm clear molding
(2)	Resin Material	Epoxy Resin
(3)	Lead Frame	Soldered

♦Outer dimension (Unit: mm)



♦Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	120	mW
Forward Current	IF	50	mA
Pulse Forward Current	IFP	200	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	200	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature	TSOL	250	°C

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 5 seconds at 250°C

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♦Electro-Optical Characteristics [Ta=25°C typ.]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		2.1	2.3	V
	VFP	IFP=200mA		3.4		
Radiated Power	PO	IF=20mA	8	15		mW
		IFP=200mA		155		
Radiant Intensity	IE	IF=20mA		8		mW/sr
		IFP=200mA		82		
Peak Wavelength	λP	IF=20mA	650	660	670	nm
Half Width	Δλ	IF=20mA		16		nm
Viewing Half Angle	θ 1/2	IF=20mA		±46		deg.
Rise Time	tr	IF=20mA		35		ns
Fall Time	tf	IF=20mA		30		ns

‡Radiated Power is measured by S3584-08.

‡Radiant Intensity is measured by CIE127-2007 Condition B.

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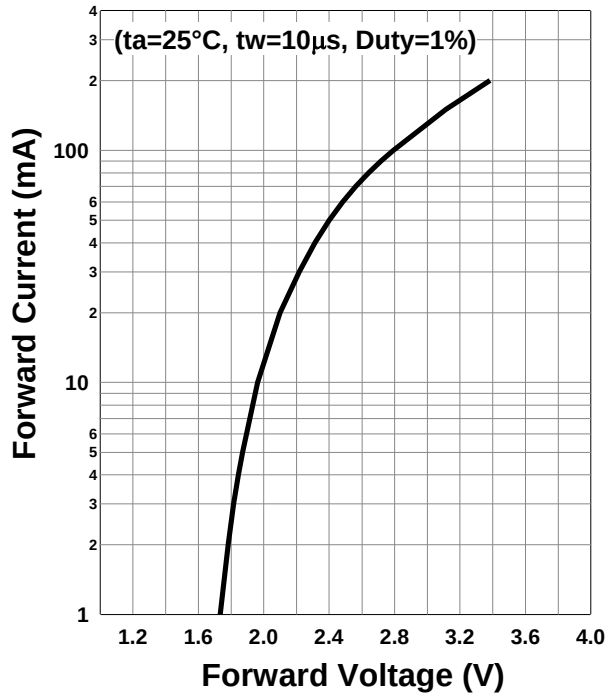
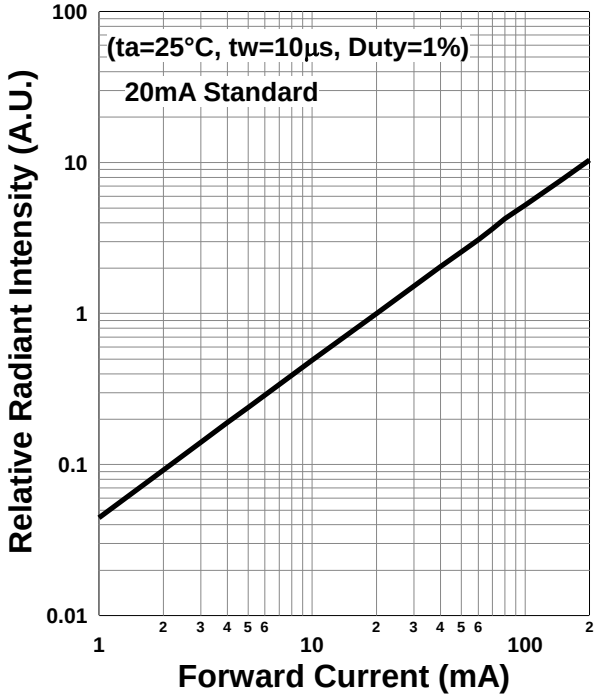
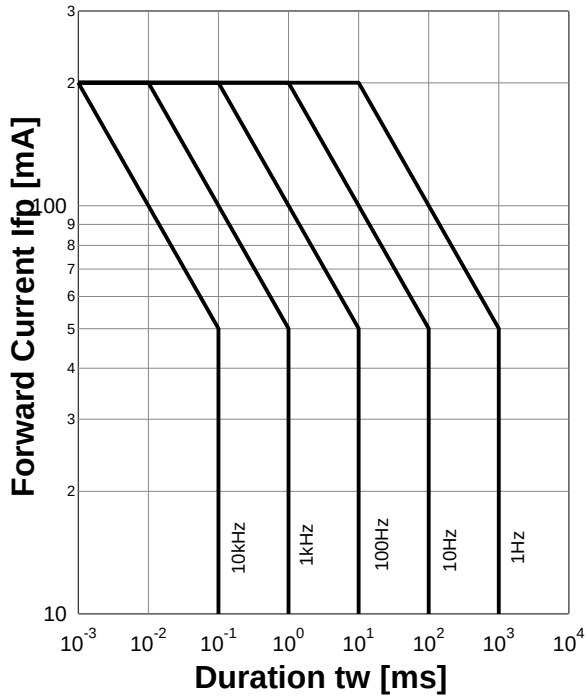
Forward Curent - Forward Voltage



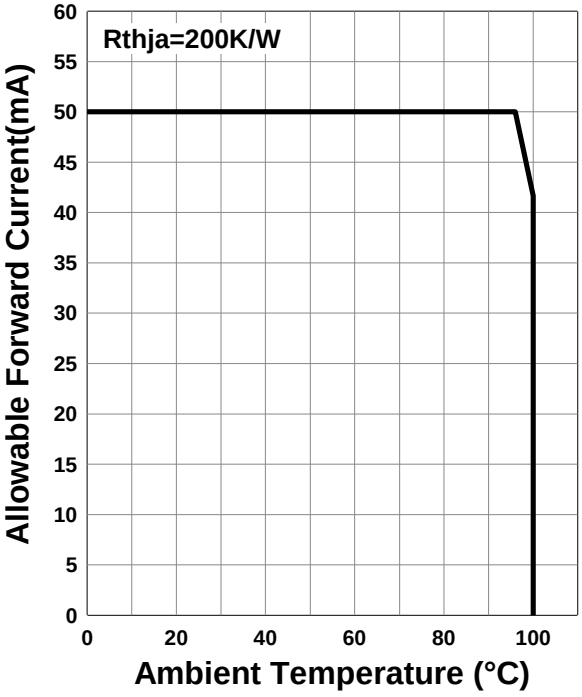
Relative Radiant Intensity - Forward Current



Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature



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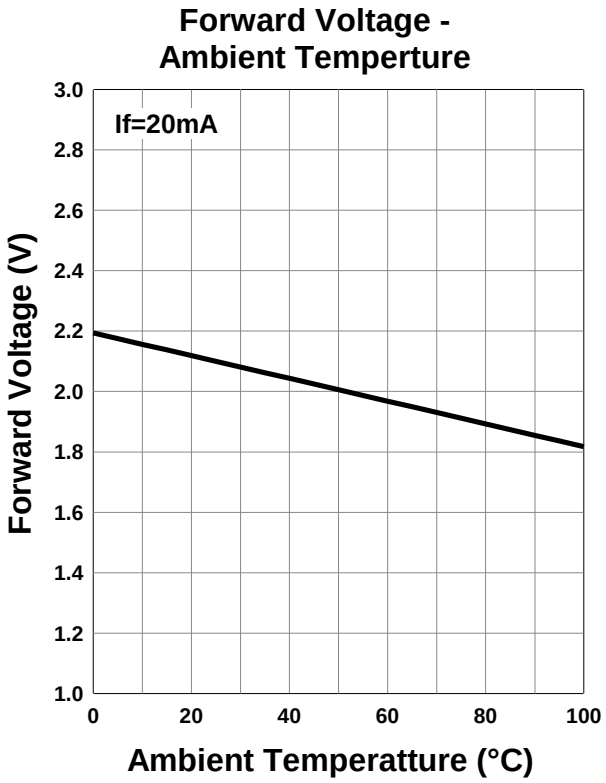

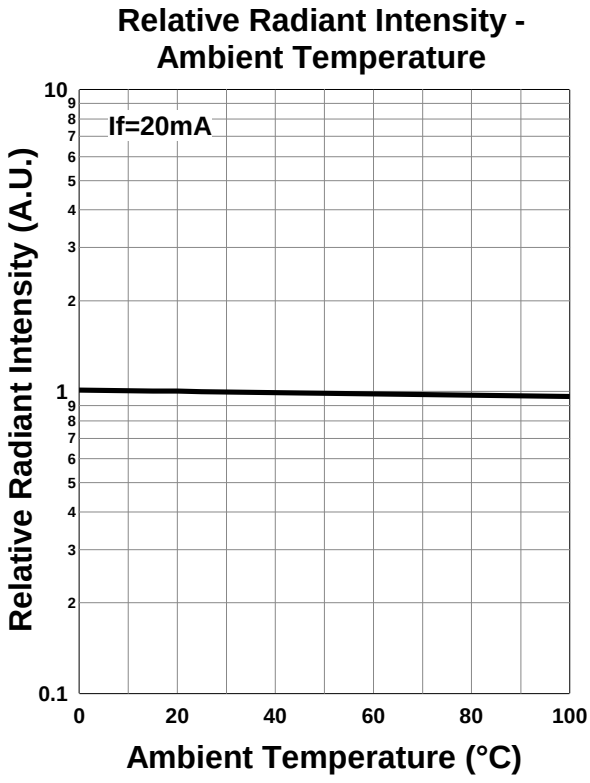

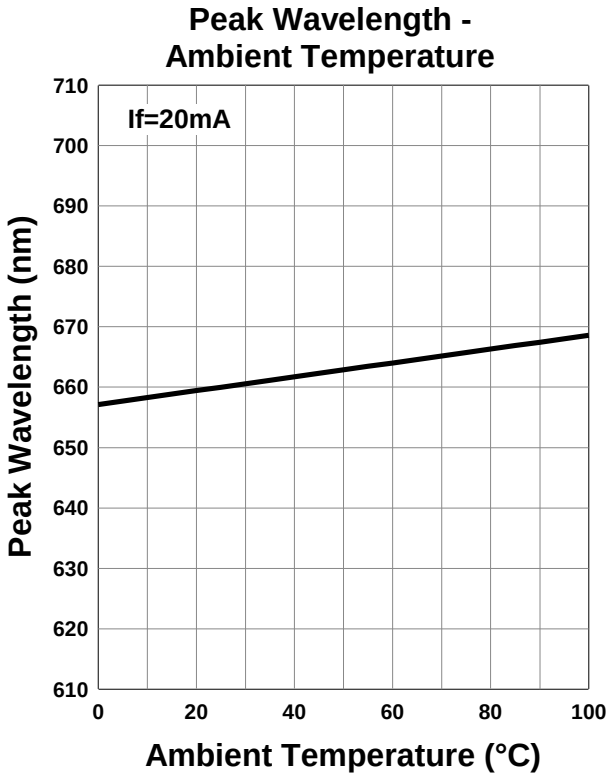

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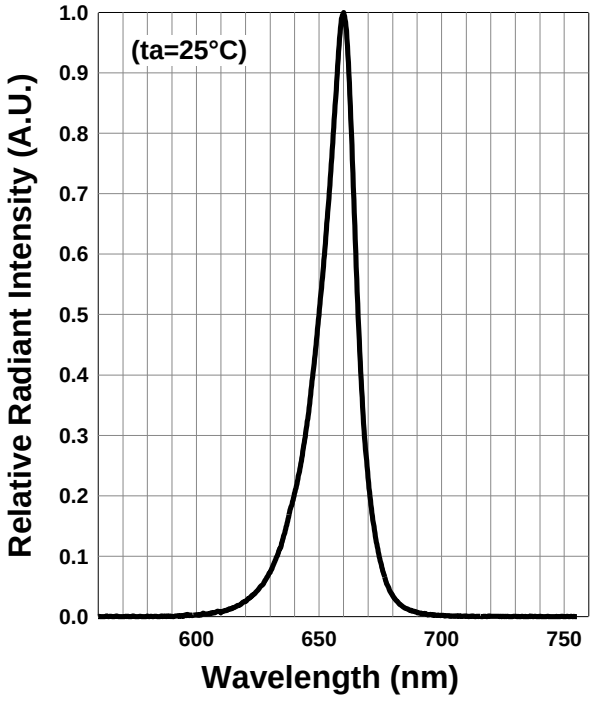
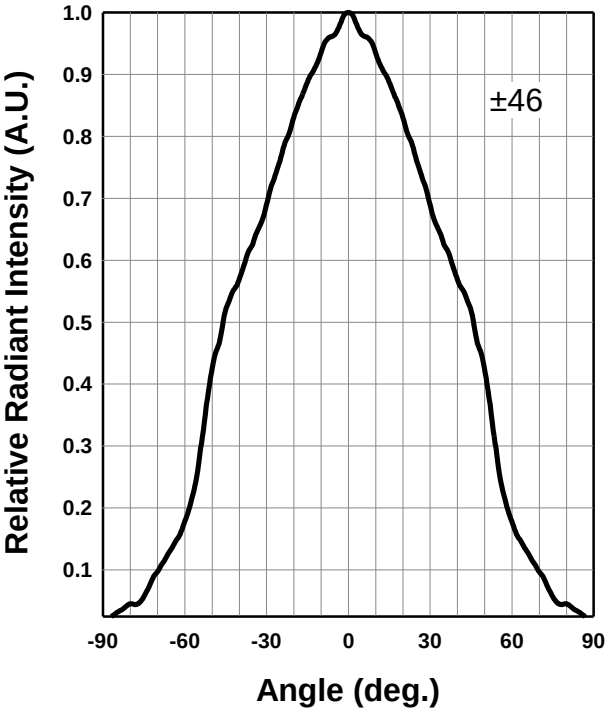
Relative Spectral Emission



Radiation Characteristics



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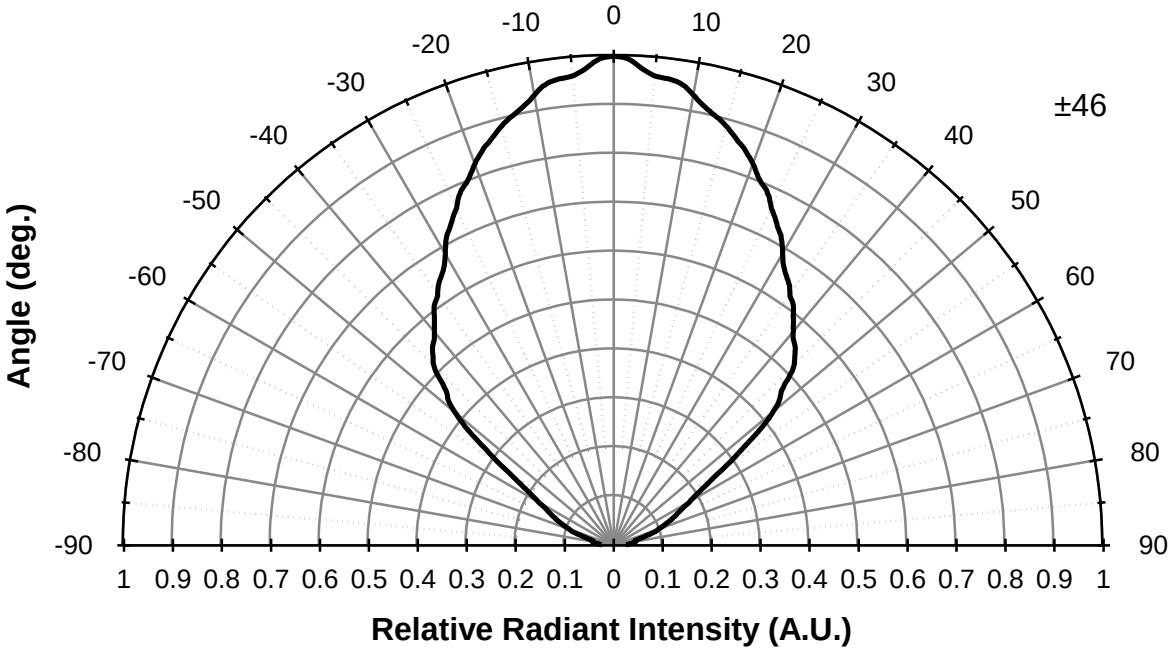

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Disclaimer

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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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