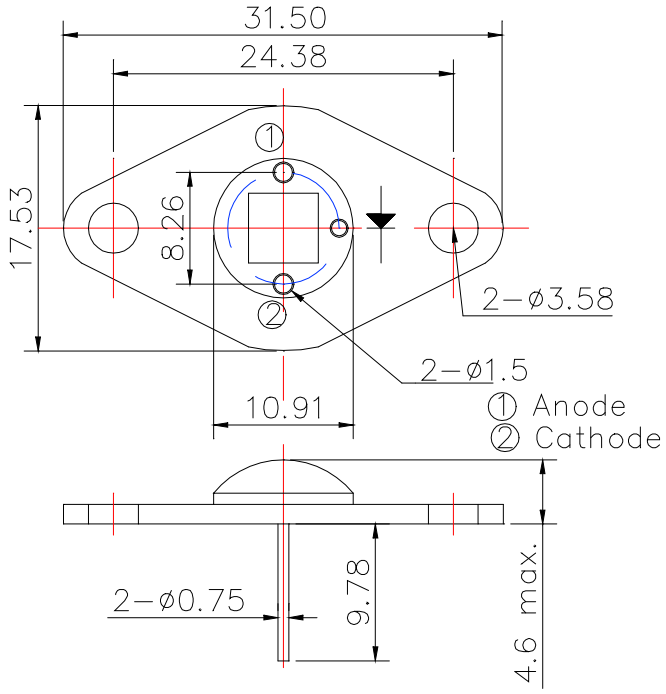
Data Sheet

L630-66-60

Red illuminator

USHIO

Outline and Internal Circuit



(Unit : mm)

Features

- Chip Material : AlGaInP
- Chip Dimension : 350um * 350um
- Number of Chips : 60pcs
- Peak Wavelength : 630nm typ.
- Stem : TO-66 stem
- Lens : Silicone and/or Epoxy resin

Application

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Power Dissipation	PD	7.2	W
Forward Current	IF	600	mA
Reverse Voltage	VR	25	V
Thermal Resistance	Rthja	2	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	TSOL	265	°C

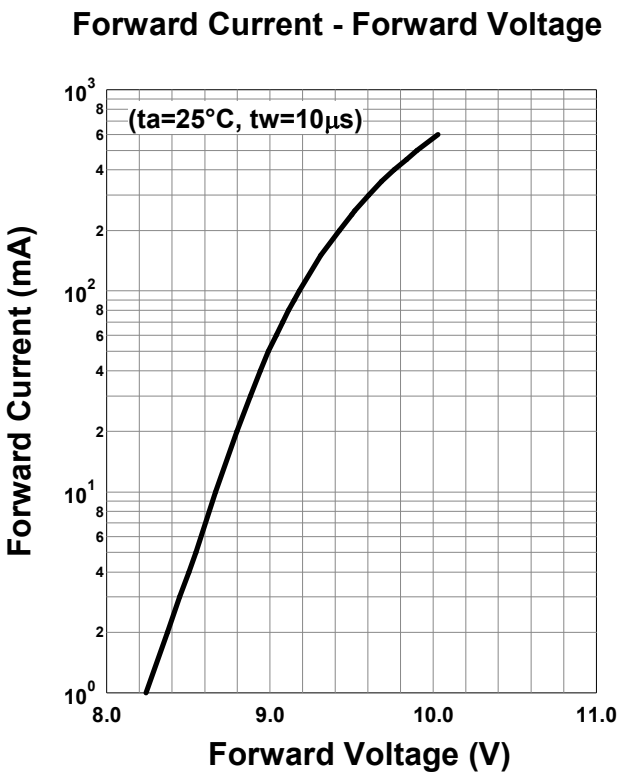
‡Soldering condition: Soldering condition must be completed with 3 seconds at 265°C.

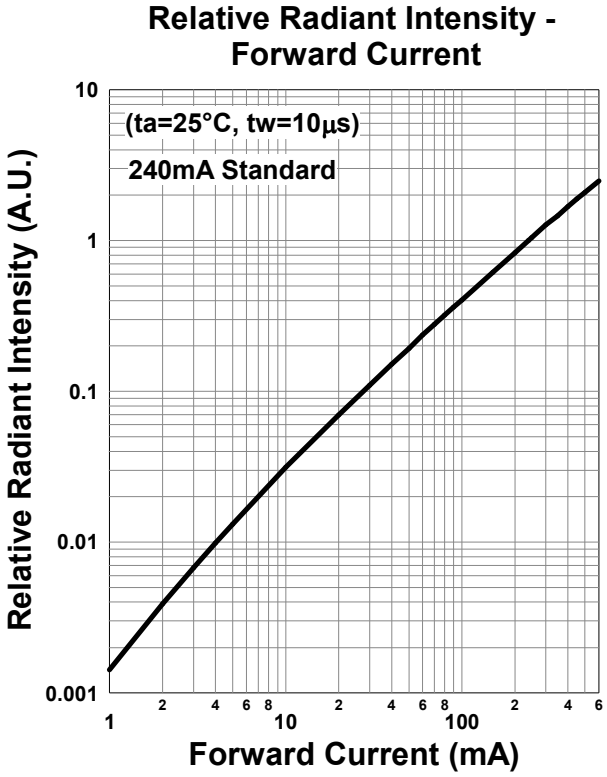
Optical and Electrical Characteristics (Tc=25°C)

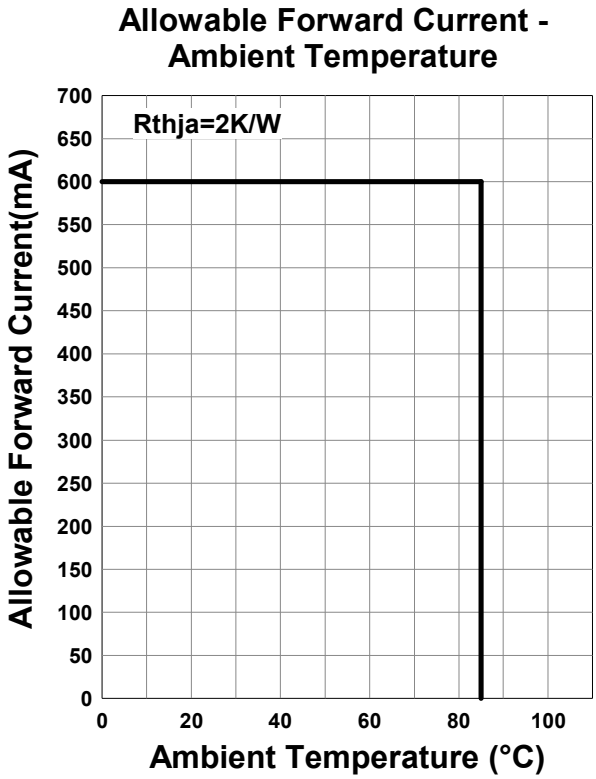
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	VF		9.5	11.5	V	IF=240mA
Total Radiated Power	PO		480		mW	IF=240mA
Luminous Flux	ΦV		65		lm	IF=240mA
Peak Wavelength	λp	620		640	nm	IF=240mA
Dominant Wavelength	λD		622		nm	IF=240mA
Half Width	Δλ		15		nm	IF=240mA
Viewing Half Angle	θ1/2		±60		deg.	IF=100mA
Rise Time	tr		10		ns	IF=240mA
Fall Time	tf		10		ns	IF=240mA

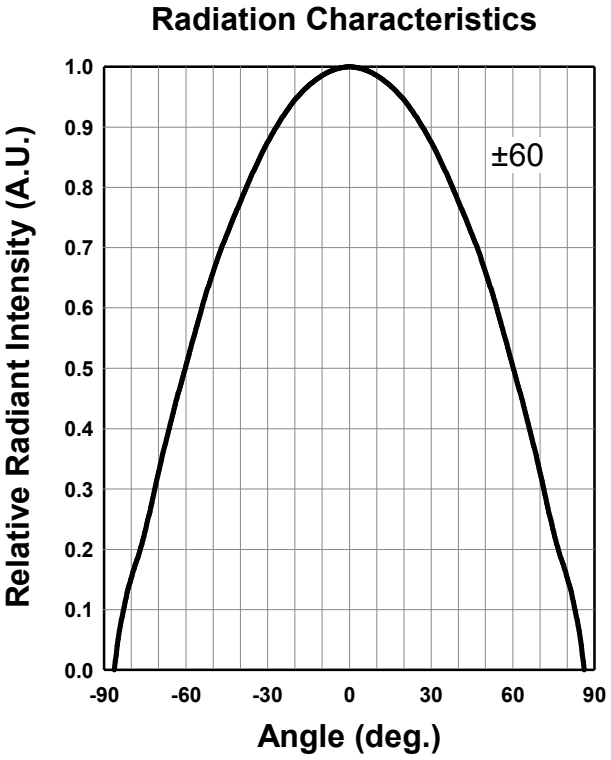
‡ Radiated Power is measured by S3584-08.

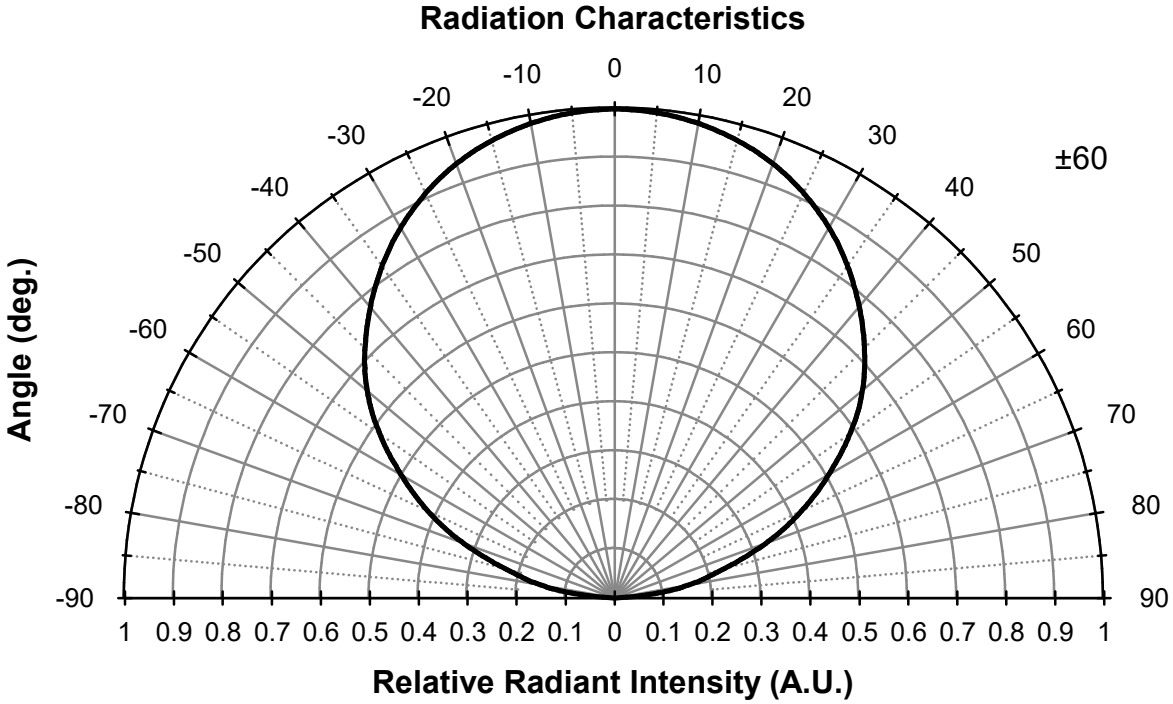
Typical Characteristic Curves



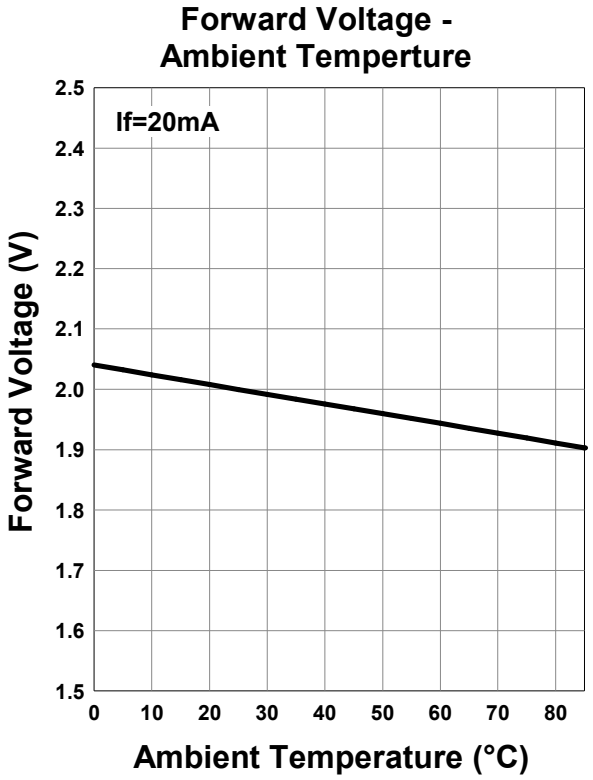


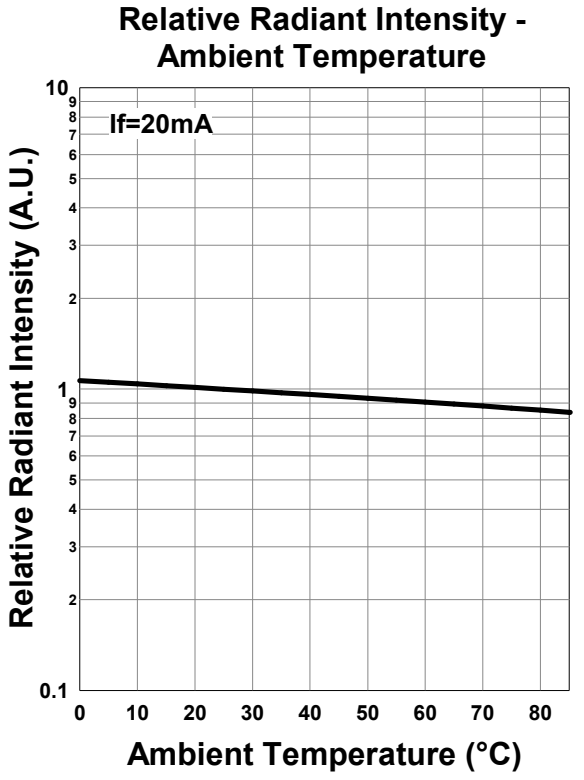


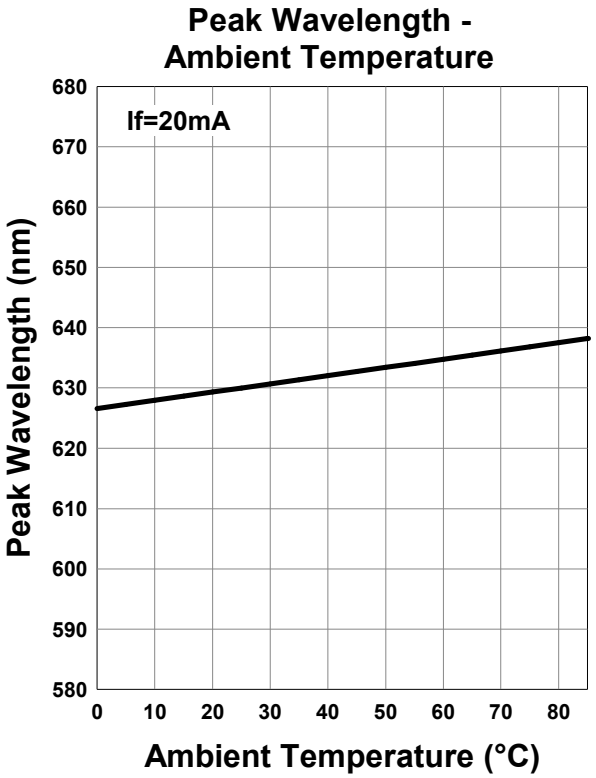

Radiation Characteristics
Relative Radiant Intensity (A.U.)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
±60
-90
-60
-30
0
30
60
90
Angle (deg.)

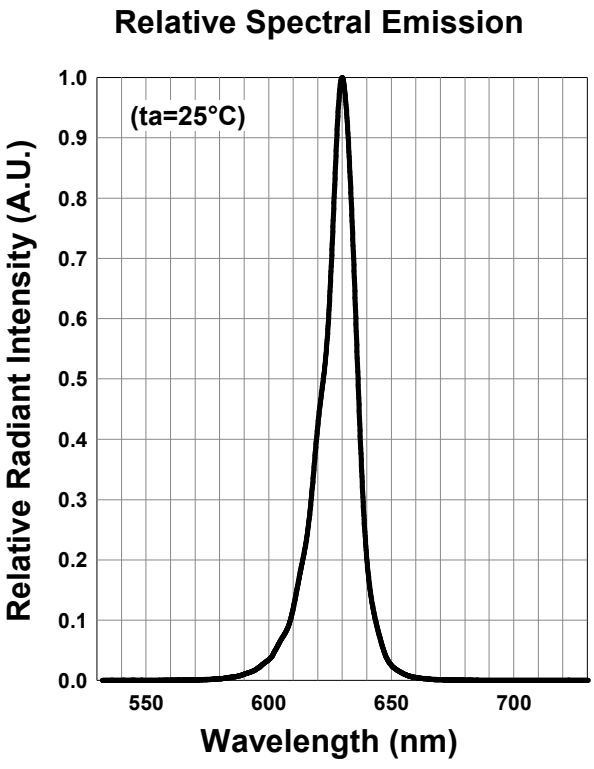

Radiation Characteristics
Angle (deg.)
-10
0
10
-20
20
-30
30
-40
40
±60
-50
50
-60
60
-70
70
-80
80
-90
90
1 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Relative Radiant Intensity (A.U.)

*The data below shows the characteristics of one representativeTO-66 chip.









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.

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.

*Effective July 2016, Ushio Epitex Inc. is now USHIO OPTO SEMICONDUCTORS, INC.