

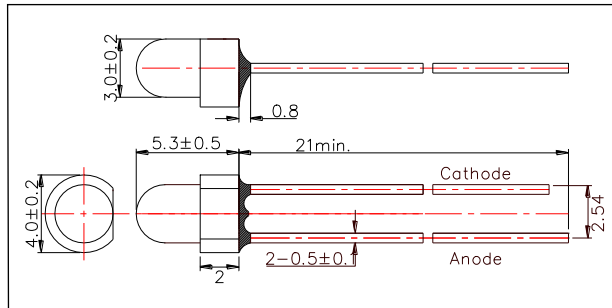
## L735-36AU Infrared LED Lamp

L735-36AU is an AlGaAs LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a spectral band of radiation that peaks at 735nm.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L735-36AU
3. Chip:
  - Chip material: AlGaAs
  - Active Area: 400um x 400um
  - Peak Wavelength: 735nm typ.
4. Package
  - Type: Φ3mm Clear Molding
  - Resin Material: Epoxy Resin
  - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	150	mW
Forward Current	IF	75	mA
Pulse Forward Current*	IFP	500	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	120	°C
Thermal Resistance	Rthjp	240	K/W
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 3 second at 250 °C.

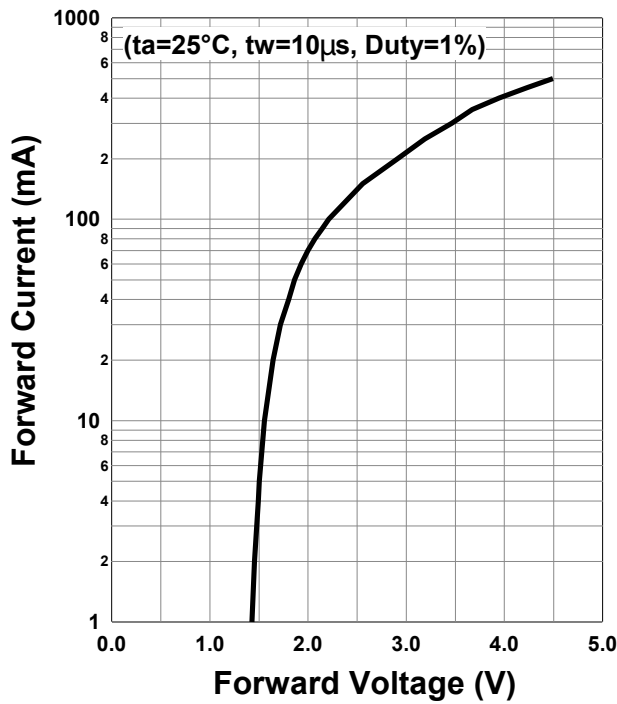
Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.85	2.00	V
Reverse Current	IR	VR=5V			-	uA
Total Radiated Power*	PO	IF=50mA	18	25		mW
Radiant Intensity**	IE	IF=50mA	23	32		mW/sr
Peak Wavelength	λP	IF=50mA	720	735	750	nm
Half Width	Δλ	IF=50mA		25		nm
Viewing Half Angle	θ1/2	IF=50mA		±23		deg
Rise Time	Tr	IF=50mA		35		ns
Fall Time	tf	IF=50mA		60		ns

\* Measured by S3584-08

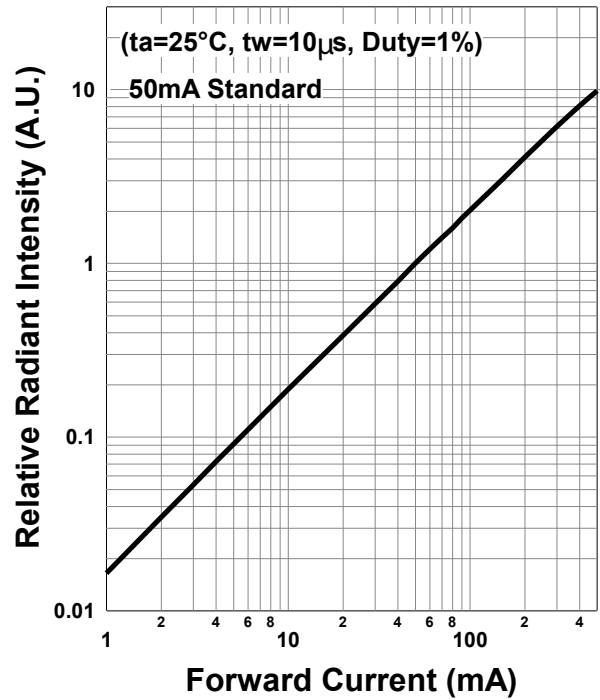
\*\* Measured by CIE127-2007 Condition B



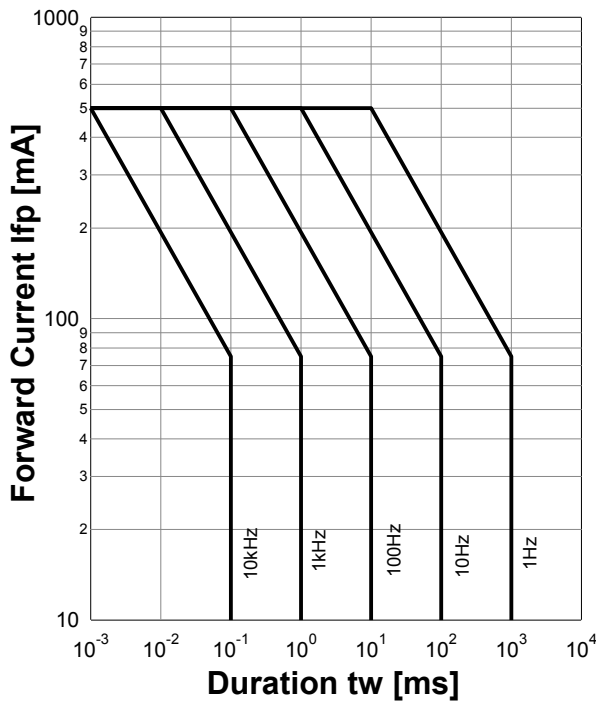
**Forward Current - Forward Voltage**



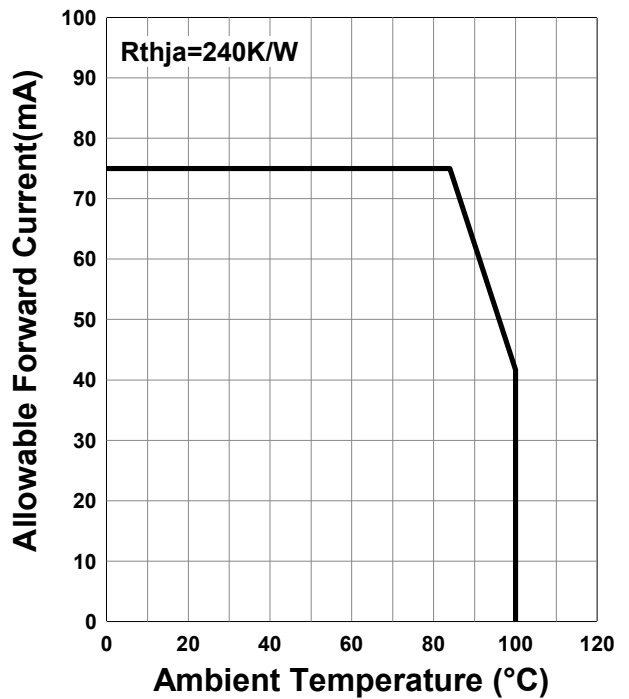
**Relative Radiant Intensity - Forward Current**

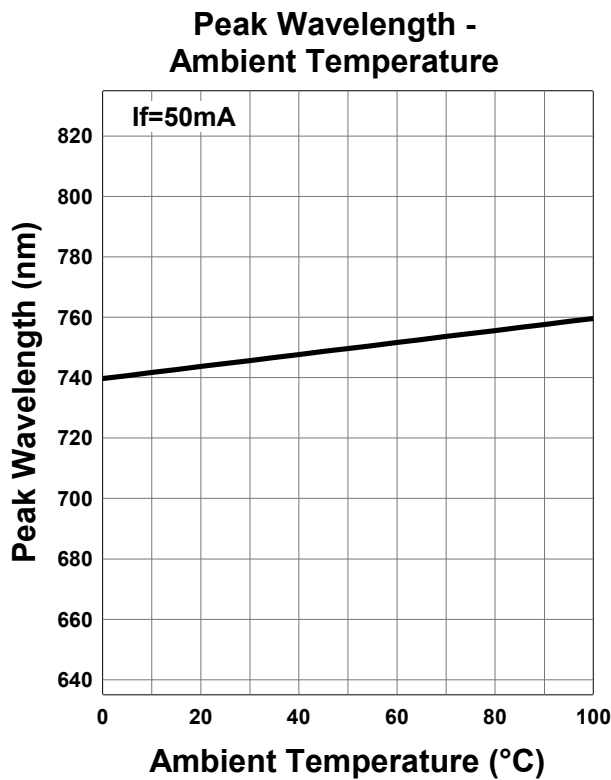
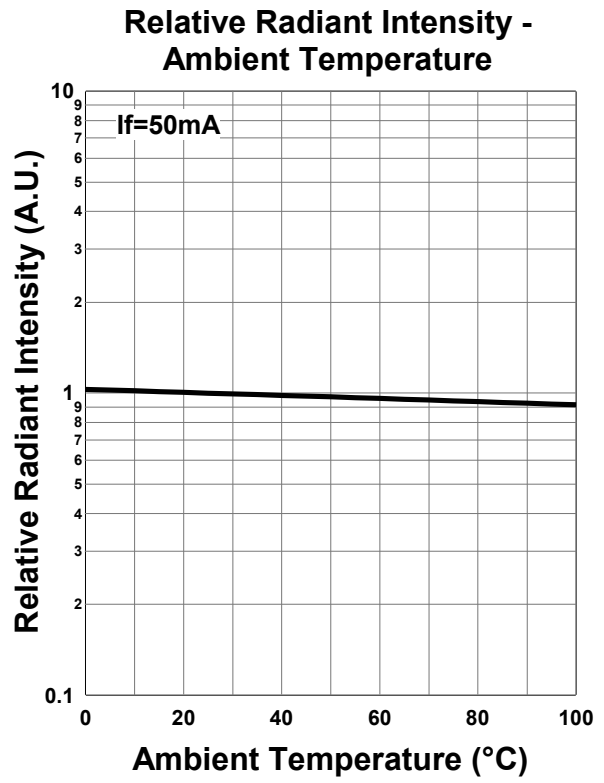
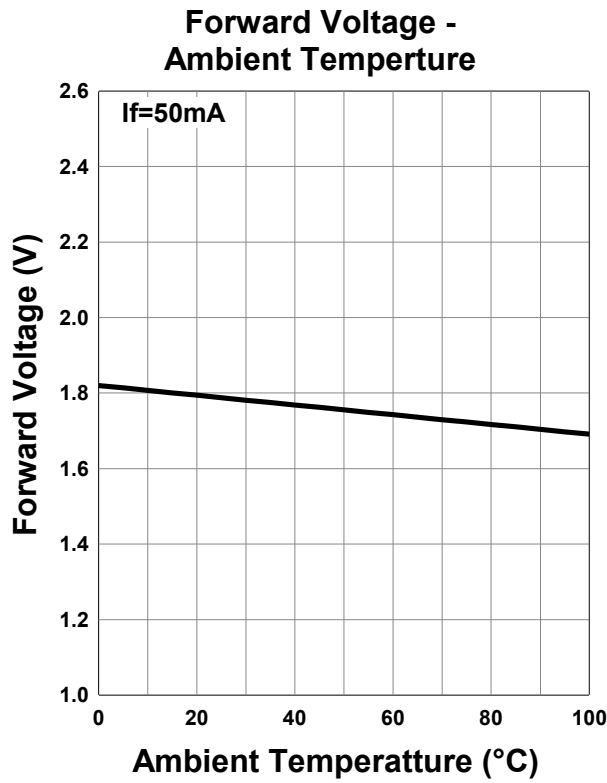


**Forward Current - Pulse Duration**

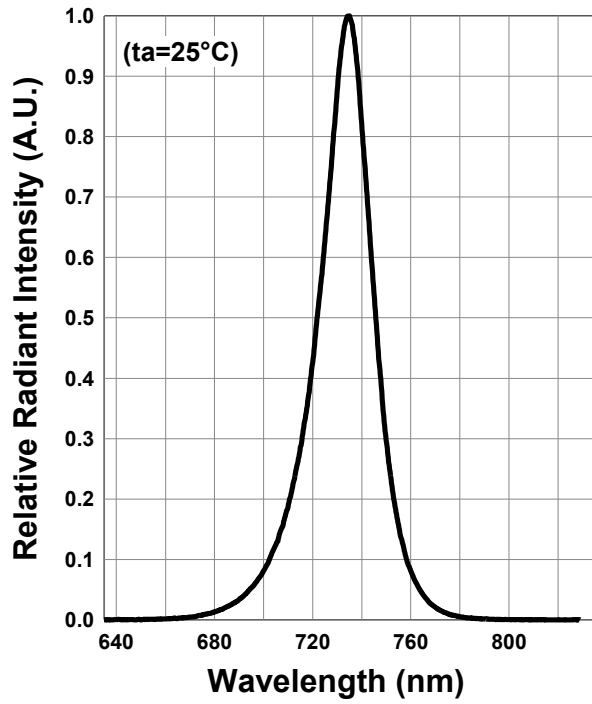


**Allowable Forward Current - Ambient Temperature**

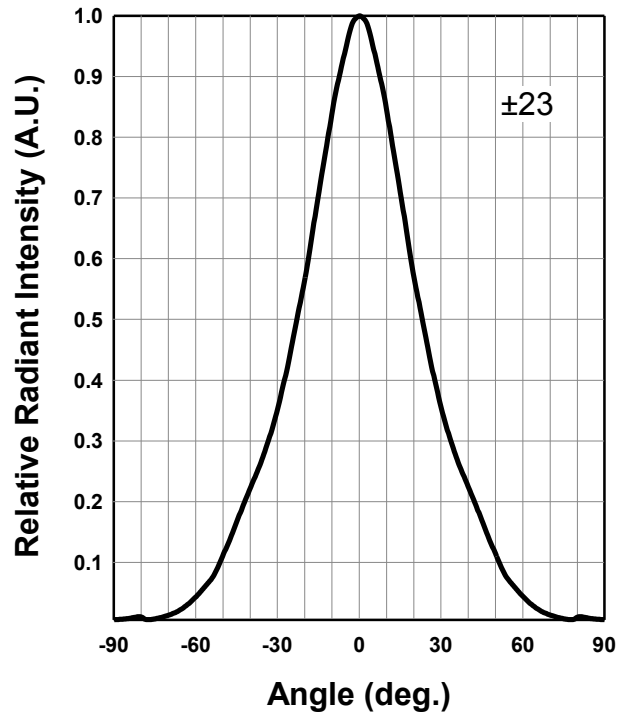




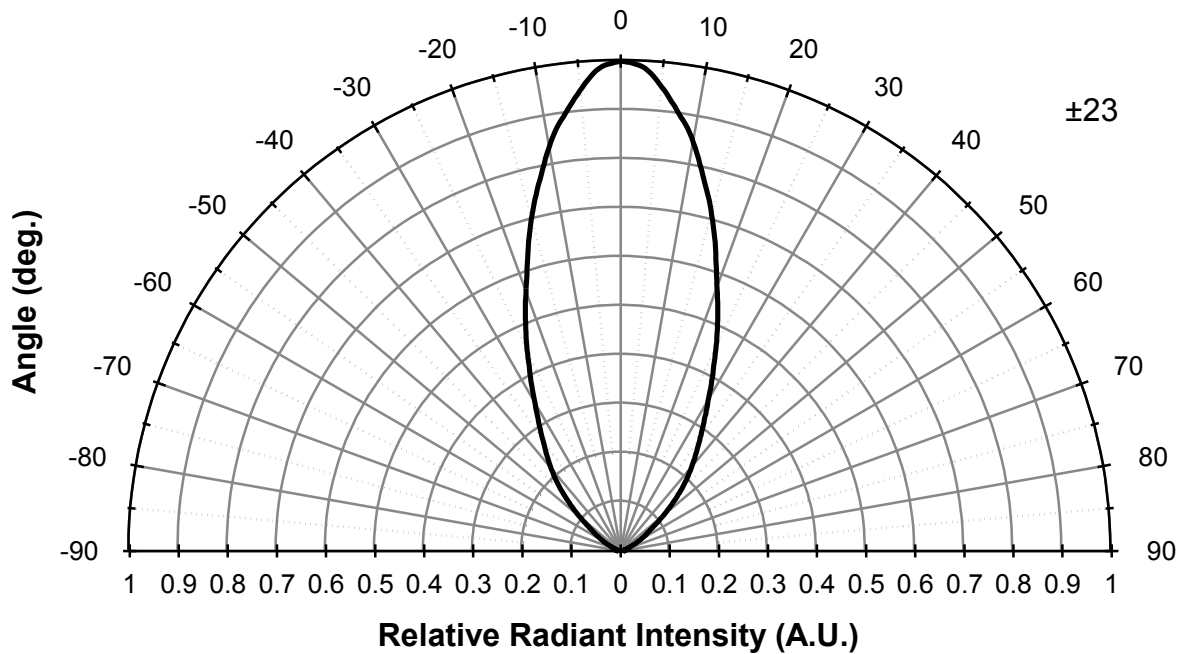
**Relative Spectral Emission**



**Radiation Characteristics**



**Radiation Characteristics**



**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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