

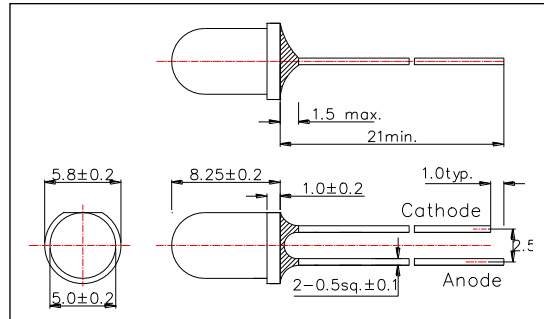
## L735-03AU Infrared LED Lamp

L735-03AU 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: L735-03AU
3. Chip:
  - Chip material: AlGaAs
  - Active Area: 400um x 400um
  - Peak Wavelength: 735nm typ.
4. Package
  - Type: Φ5mm 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.

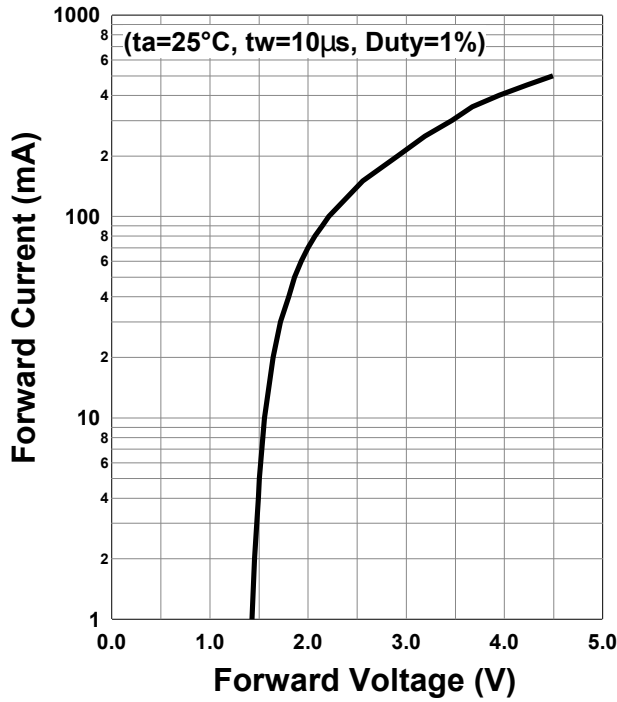
Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.85	2.00	V
Reverse Current	IR	VR=5V			-	uA
Total Radiated Power*	PO	IF=50mA	18	25		mW
Radiant Intensity**	IE	IF=50mA	72	100		mW/sr
Peak Wavelength	λP	IF=50mA	720	735	750	nm
Half Width	Δλ	IF=50mA		25		nm
Viewing Half Angle	θ1/2	IF=50mA		±8		deg
Rise Time	Tr	IF=50mA		35		ns
Fall Time	tf	IF=50mA		60		ns

\* Measured by S3584-08

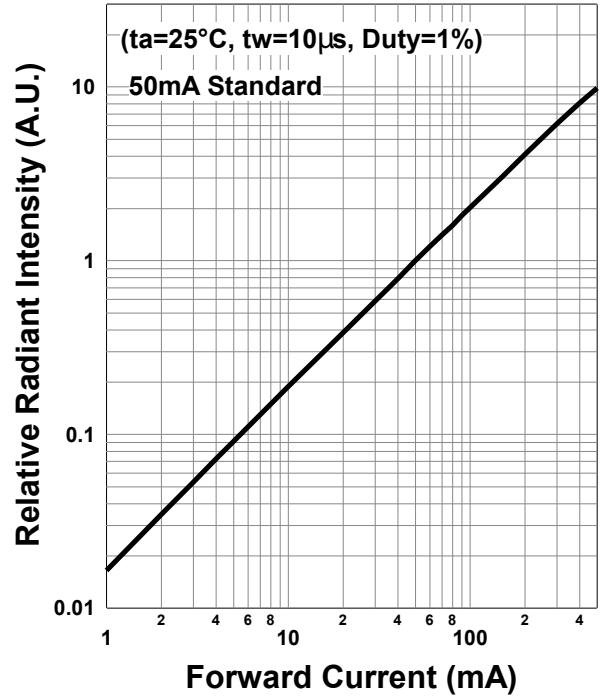
\*\* Measured by CIE127-2007 Condition B.



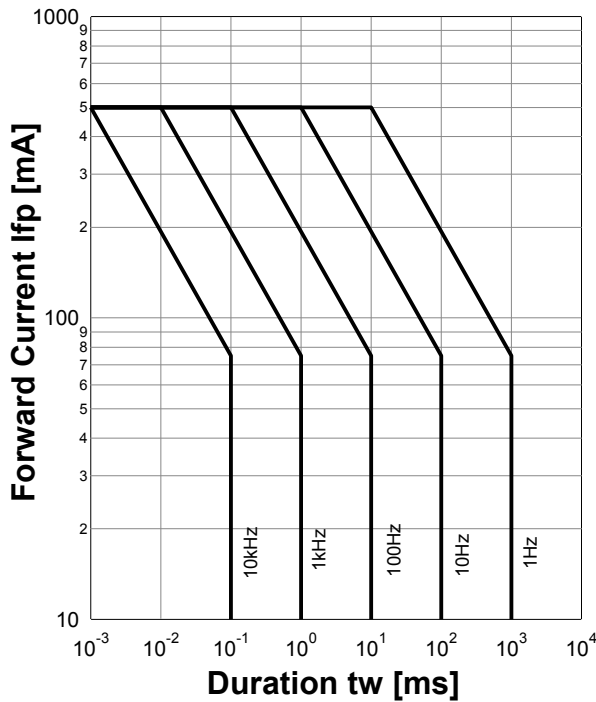
**Forward Current - Forward Voltage**



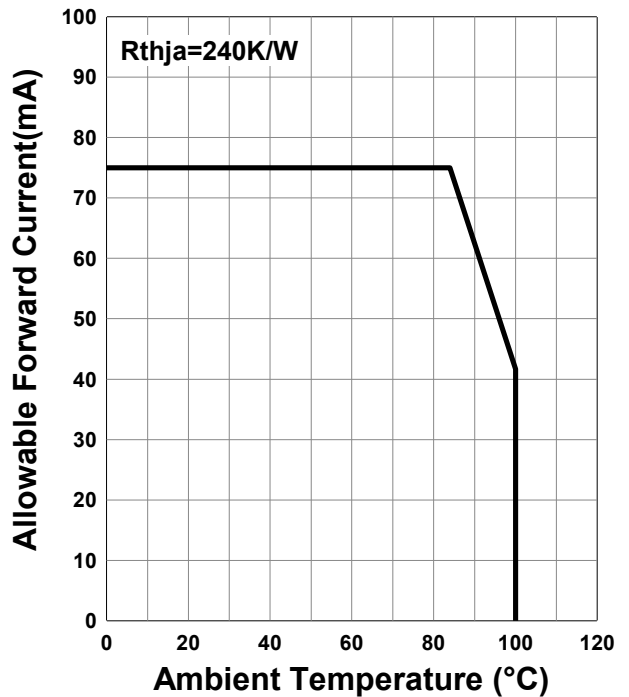
**Relative Radiant Intensity - Forward Current**

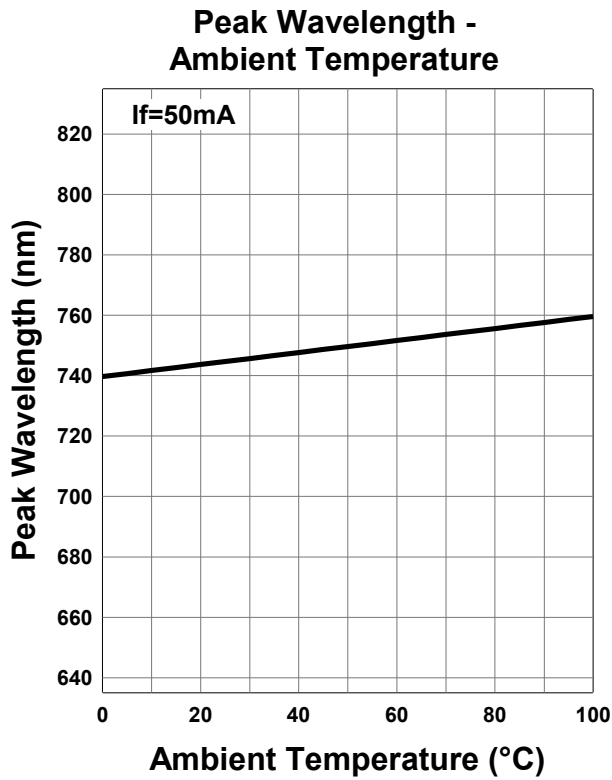
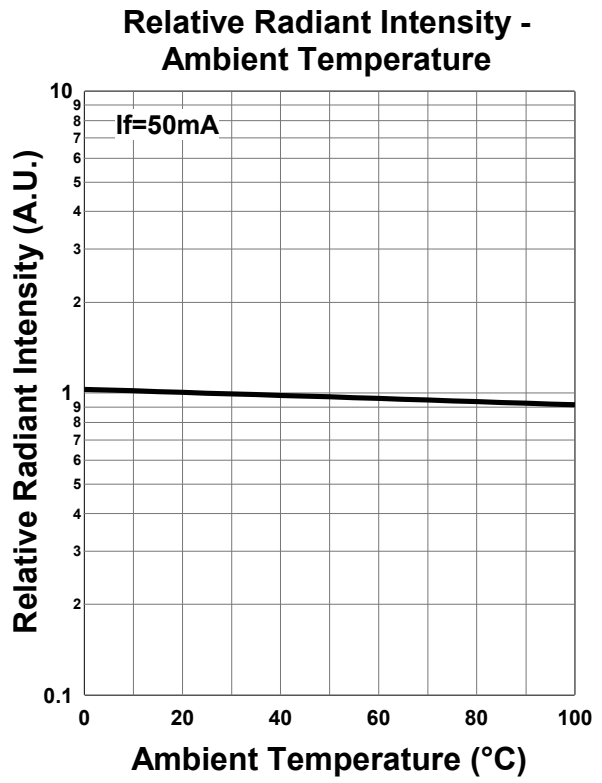
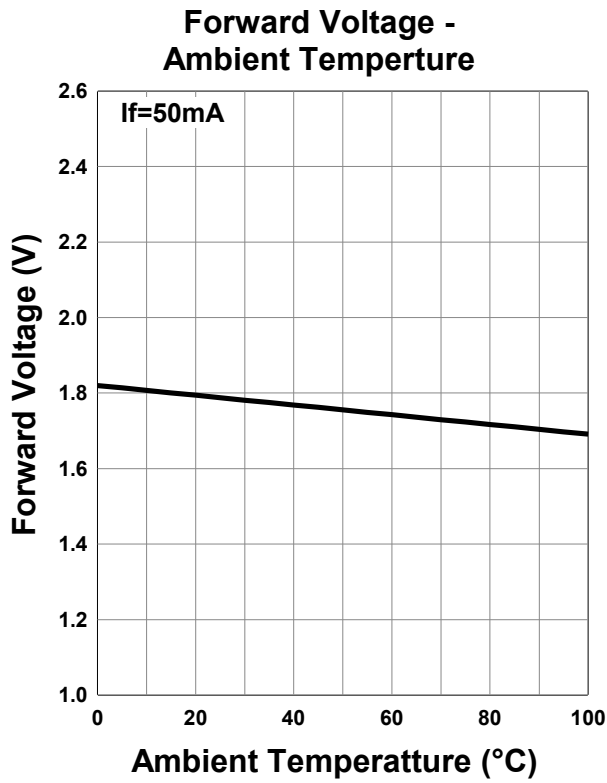


**Forward Current - Pulse Duration**

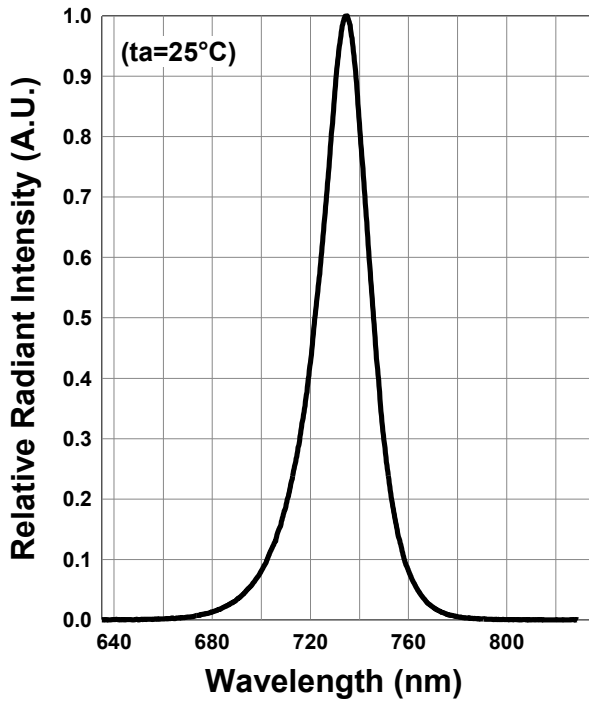


**Allowable Forward Current - Ambient Temperature**

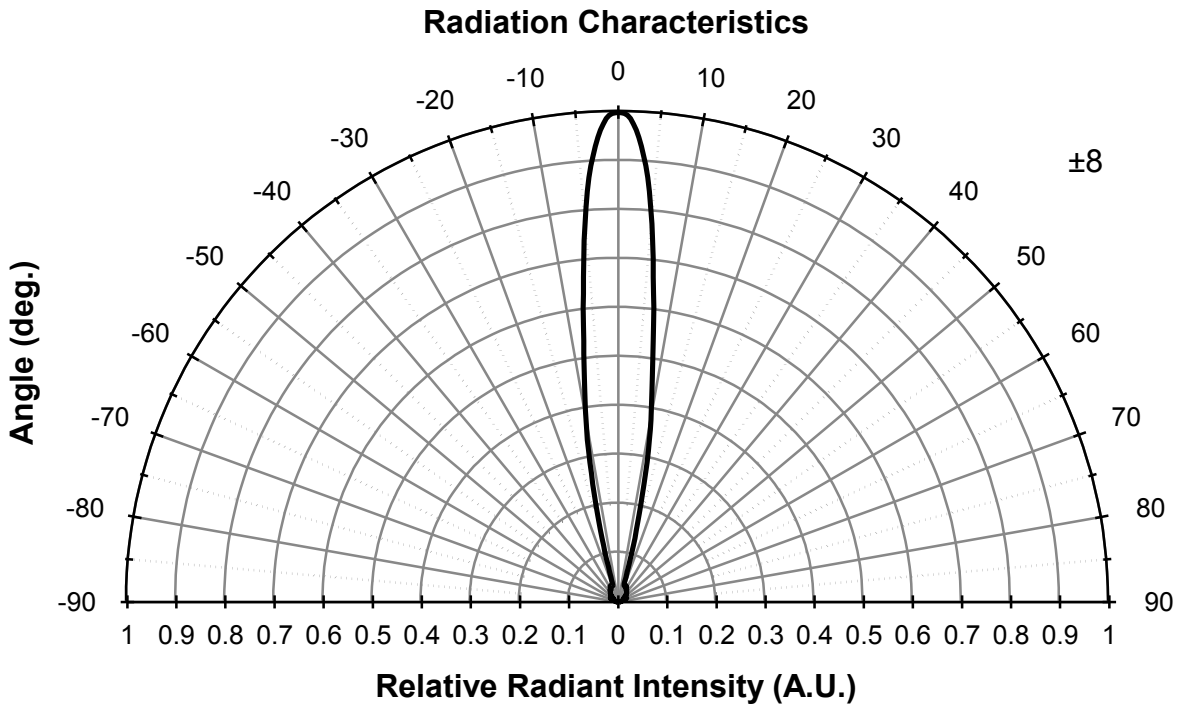
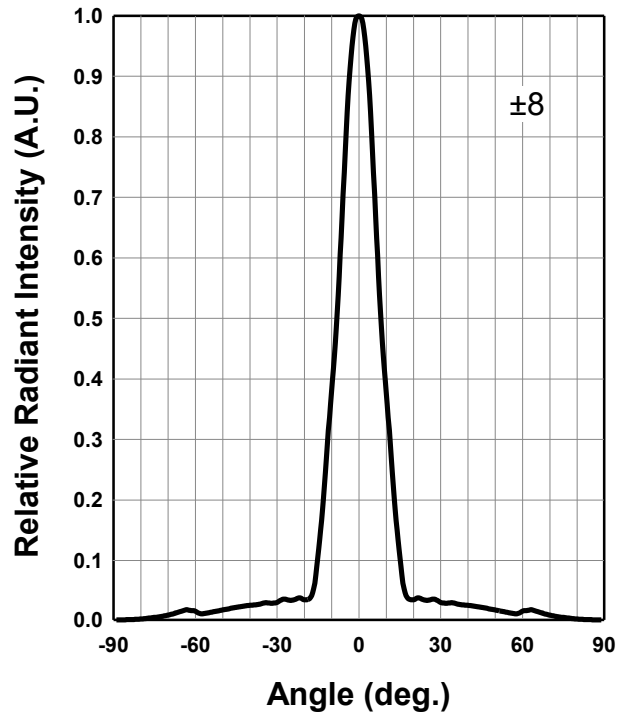




**Relative Spectral Emission**



**Radiation Characteristics**



**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.

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