

L735-03AU

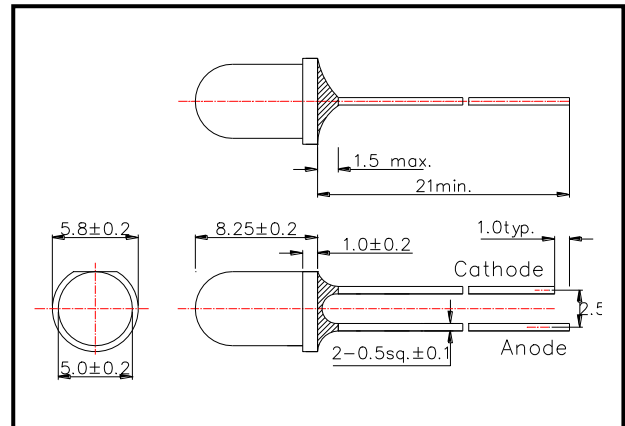
Infrared LED Lamp

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, which peaks at 735nm.

Specifications

- 1) Product Name Infrared LED Lamp
- 2) Type No. L735-03AU
- 3) Chip
- (1) Chip Material AlGaAs
- (2) Chip Active Area 400um x 400um
- (3) Peak Wavelength 735nm typ.
- 4) Package
- (1) Type Φ5mm clear molding
- (2) Resin Material Epoxy Resin
- (3) Lead Frame Soldered (Lead Frame)

Outer dimension (Unit: mm)



Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	P _D	150	mW
Forward Current	I _F	75	mA
Pulse Forward Current	I _{FP}	500	mA
Reverse Voltage	V _R	5	V
Thermal Resistance	R _{thja}	240	K/W
Junction Temperature	T _j	120	°C
Operating Temperature	T _{OPR}	-40 ~ +100	°C
Storage Temperature	T _{STG}	-40 ~ +100	°C
Soldering Temperature	T _{SOL}	250	°C

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

‡Soldering condition: Soldering condition must be completed within 3 seconds at 250°C

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

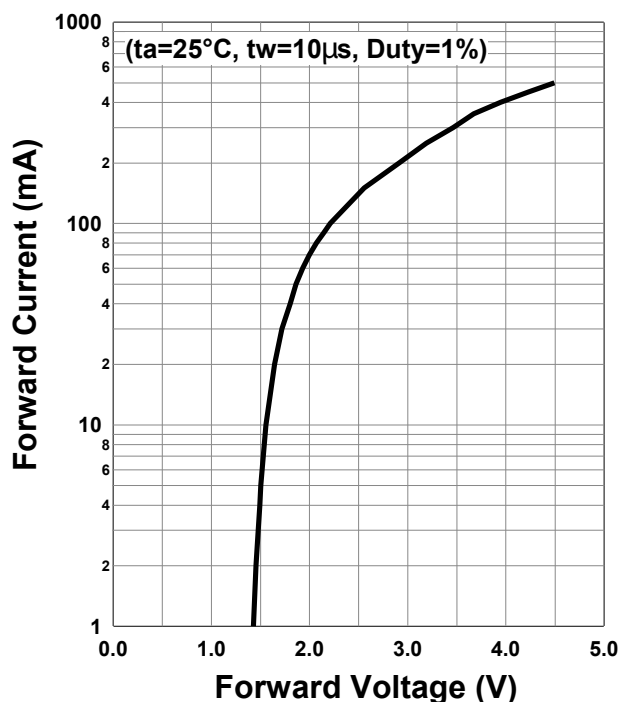
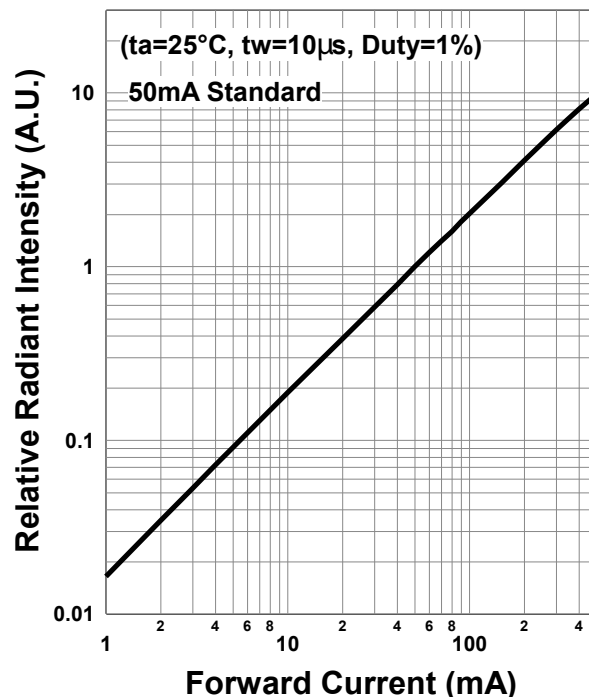
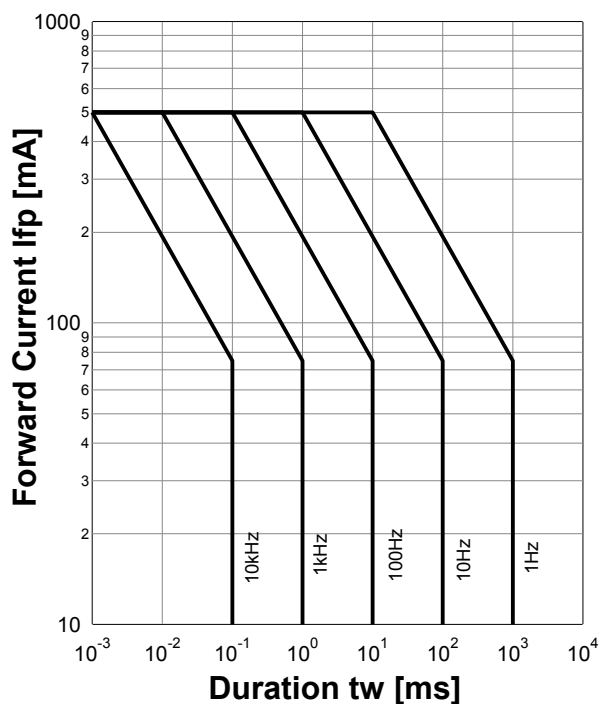
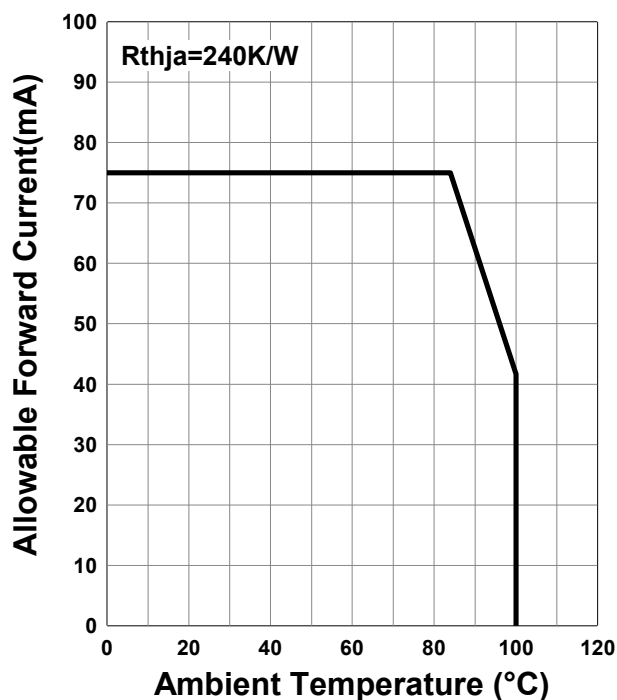
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =50mA		1.85	2.00	V
Radiated Power	P _O	I _F =50mA	18	25		mW
Total Radiated Power	I _E	I _F =50mA	72	100		mcd
Peak Wavelength	λ _P	I _F =50mA	720	735	750	nm
Half Width	Δλ	I _F =50mA		25		nm
Viewing Half Angle	θ _{1/2}	I _F =50mA		±8		deg.
Rise Time	t _r	I _F =50mA		35		ns
Fall Time	t _f	I _F =50mA		60		ns

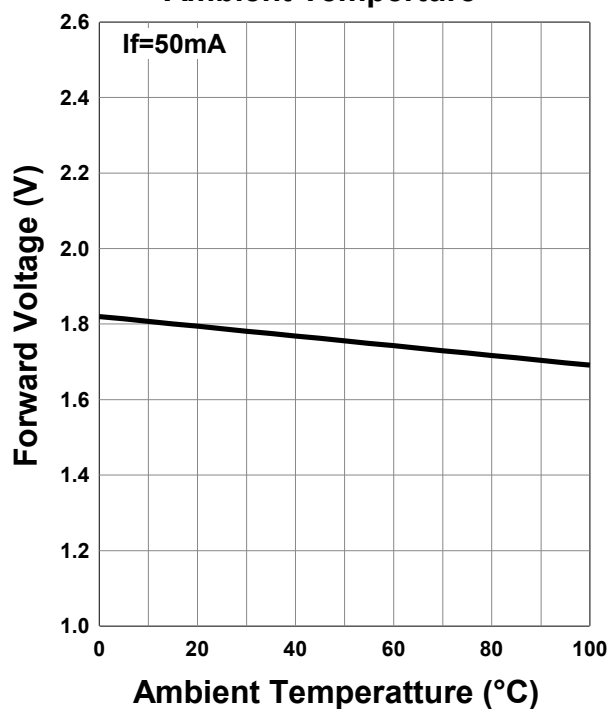
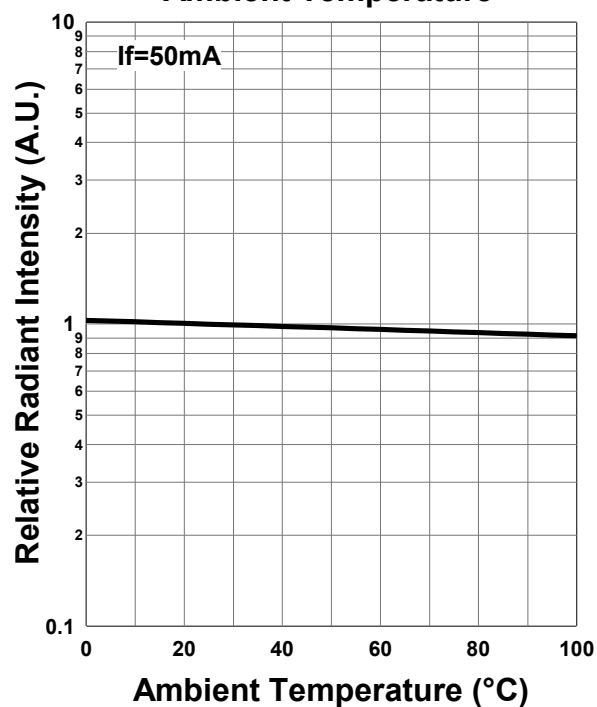
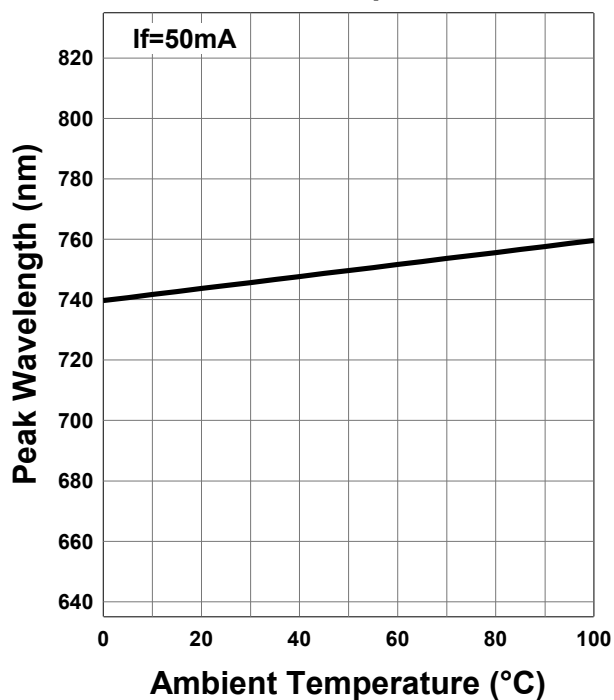
‡Radiated Power is measured by S3584-08.

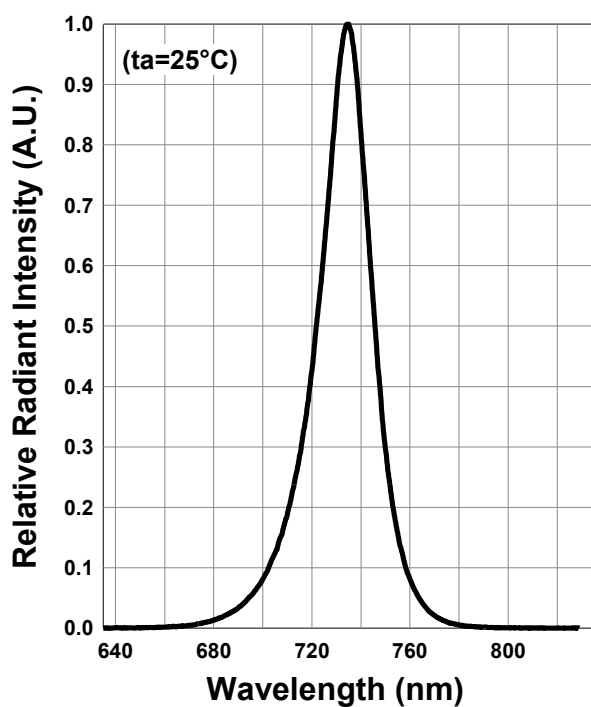
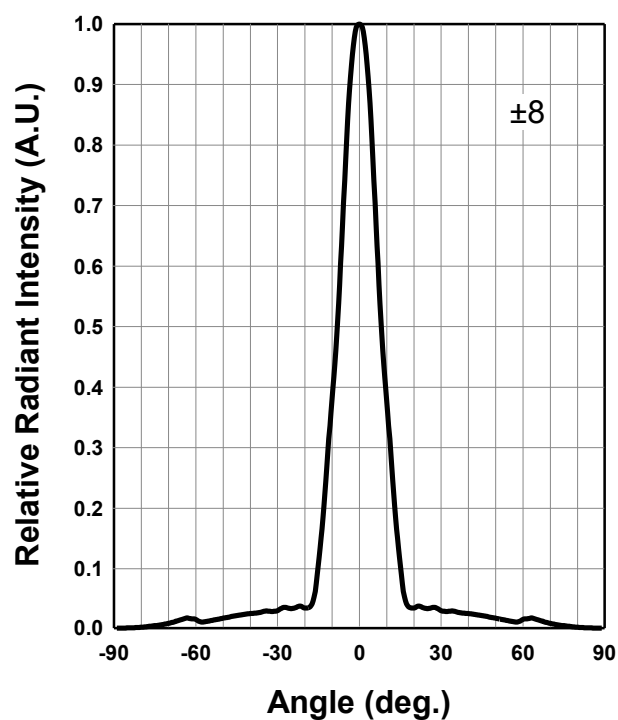
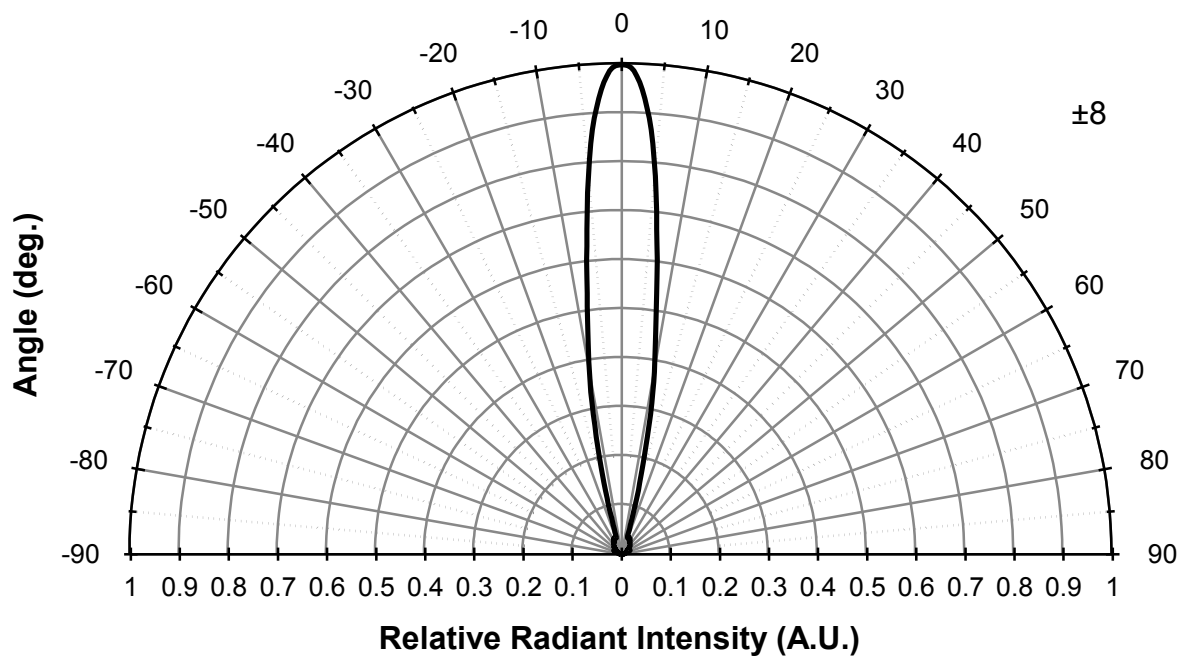
‡Radiant Intensity is measured by CIE127-2007 Condition B.

Marubeni America Corporation

3945 Freedom Circle, Suite 1000, Santa Clara, CA 95054
 408-330-0650, 408-330-0655 (Fax), sales@tech-led.com

Forward Current - Forward Voltage

Relative Radiant Intensity - Forward Current

Forward Current - Pulse Duration

Allowable Forward Current - Ambient Temperature


**Forward Voltage -
Ambient Temperature****Relative Radiant Intensity -
Ambient Temperature****Peak Wavelength -
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.

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