

L810-33AU

Infrared LED Lamp

L800-33AU 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 810nm.

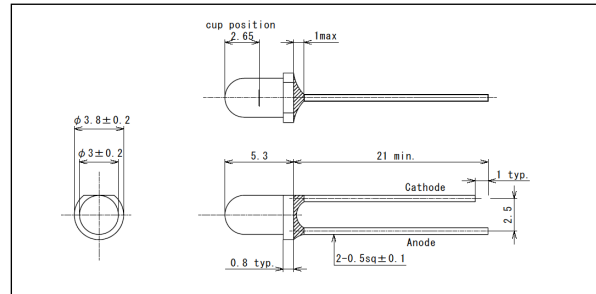
<Specifications>

- High Power Infrared LED
- Peak wavelength: 810nm typ.
- Very High Radiant Intensity
- Emission Angle: $\pm 18^\circ$

<Application>

- ETC LED Array
- CCTV Light Source
- Industrial Emitters

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	170	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	500	mA
Reverse Voltage	VR	5	V
Operating Temperature	TOPR	-30 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Duty=1% and Pulse Width=10us.

** Soldering condition must be completed within 3 second at 265 °C.

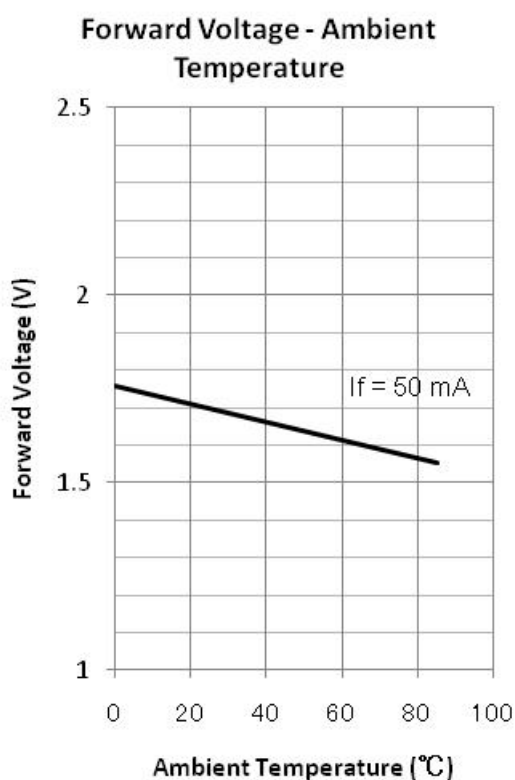
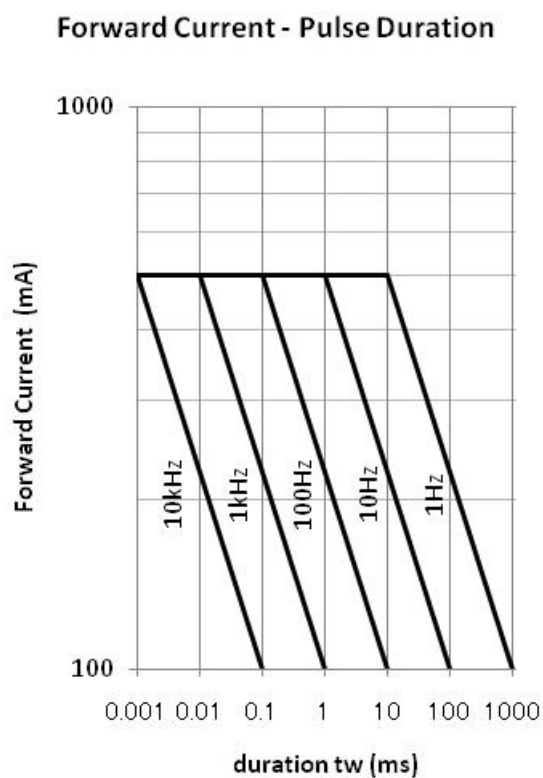
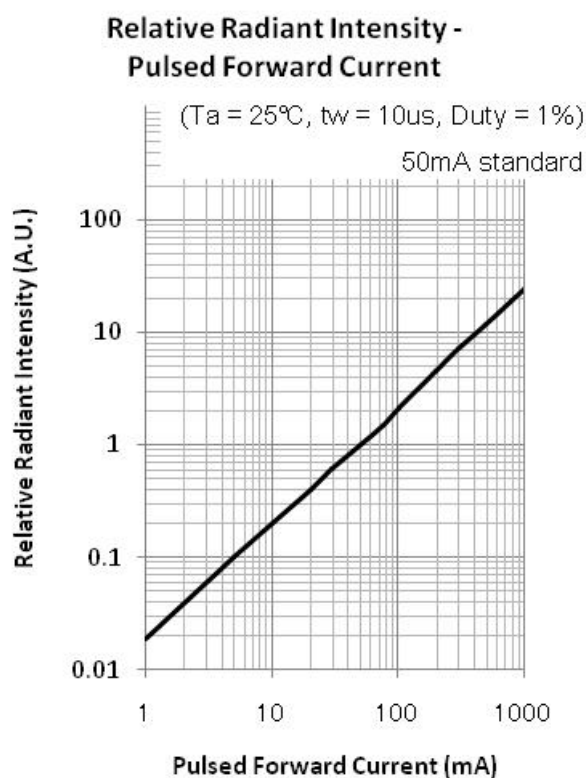
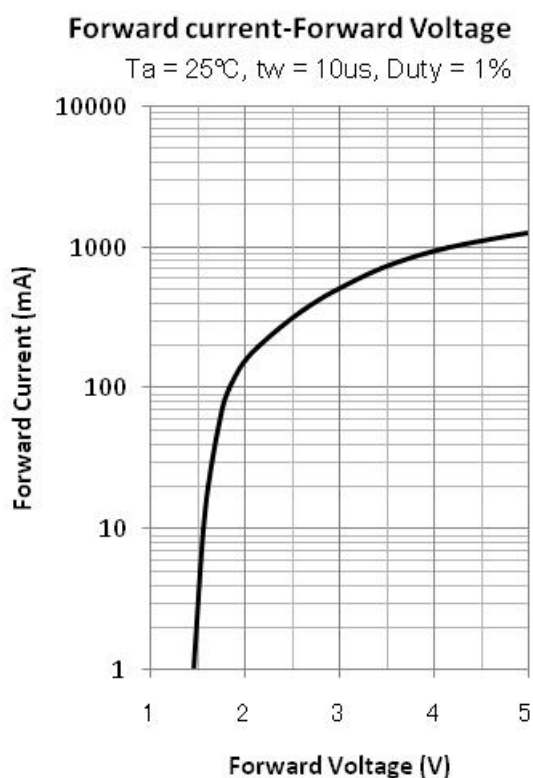
Electro-Optical Characteristics [Ta=25°C]

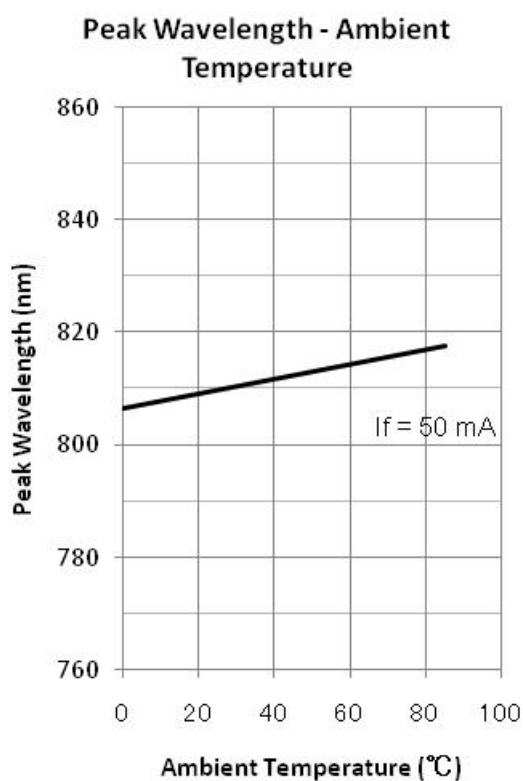
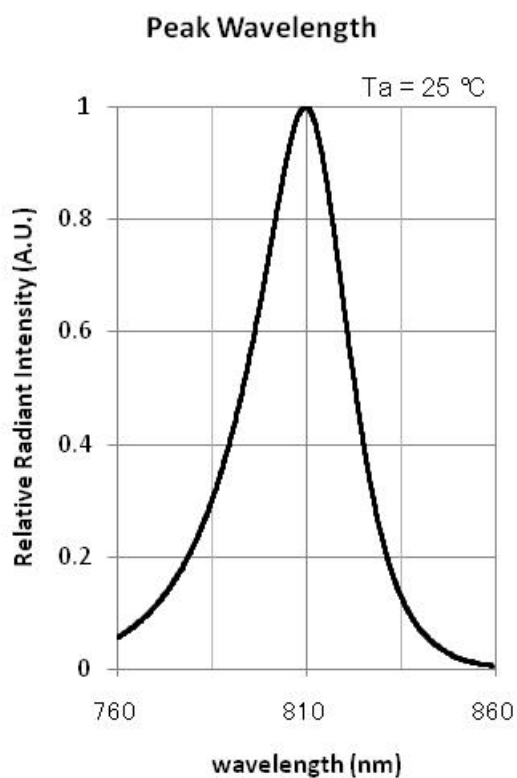
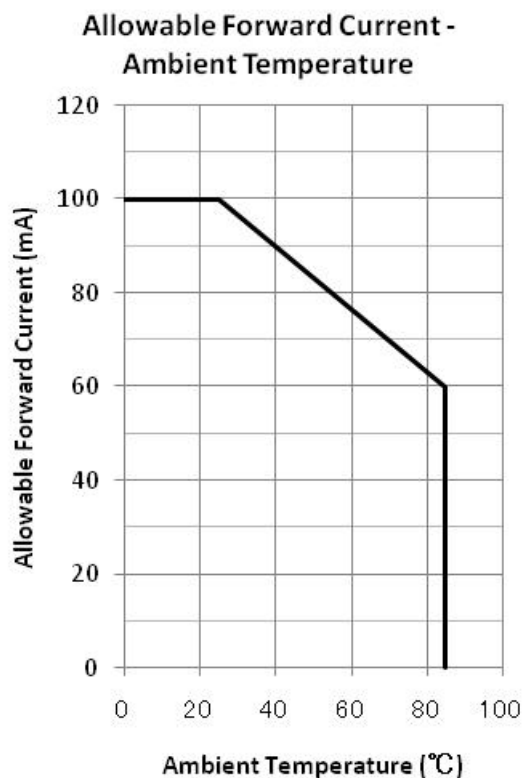
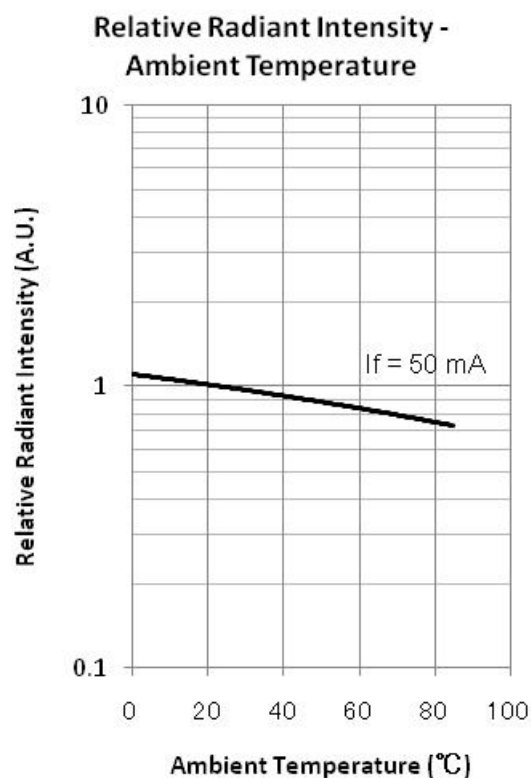
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.7	1.9	V
Reverse Current	IR	VR=5V			10	μA
Total Radiated Power*	PO	IF=50mA	17	22		mW
Radiant Intensity**	IE	IF=50mA		40		mW/sr
Peak Wavelength	λP	IF=50mA		810		nm
Half Width	Δλ	IF=50mA		35		nm
Viewing Half Angle	θ1/2	IF=50mA		±18		deg
Rise Time	tr	IF=50mA		50		ns
Fall Time	tf	IF=50mA		25		ns

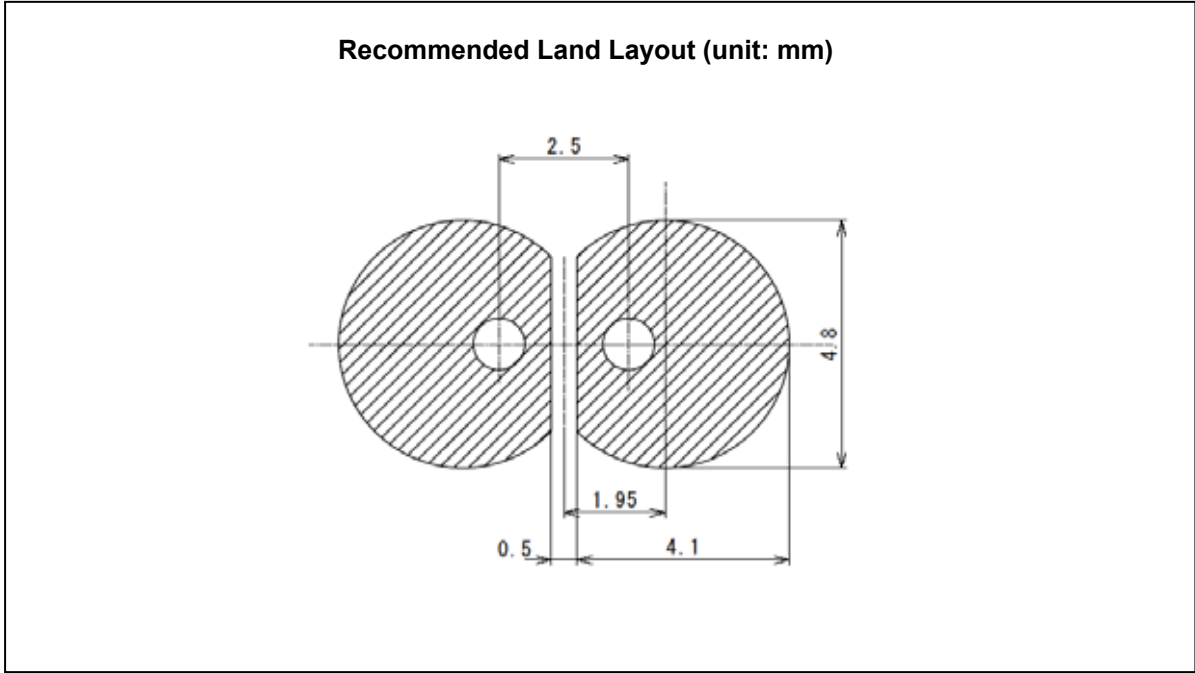
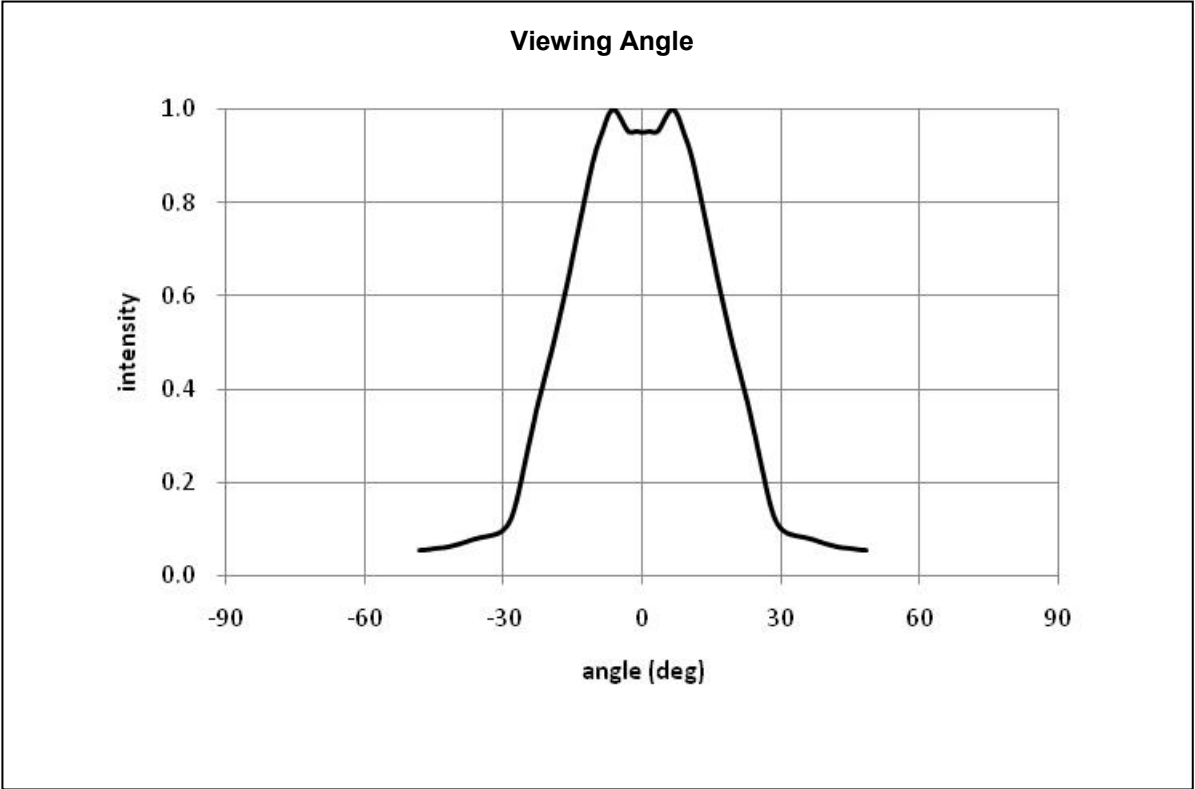
* Measured by Photodyne #500

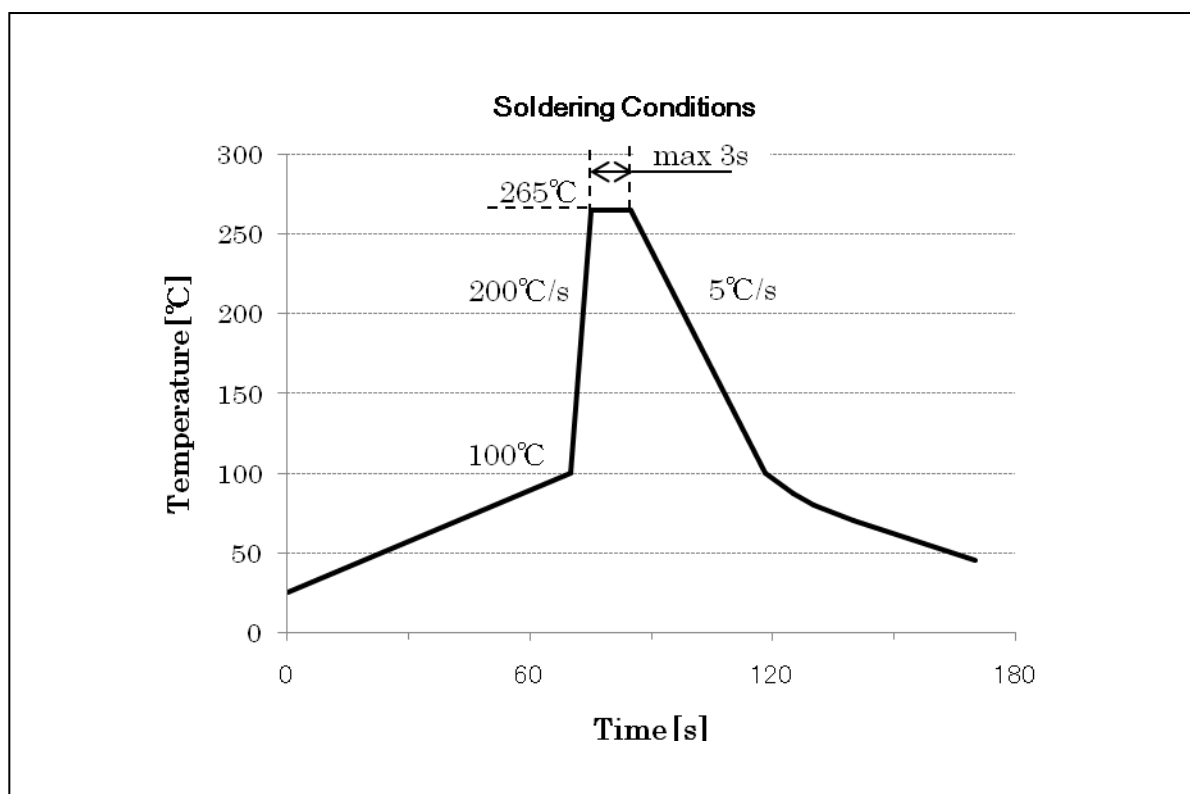
** Measured by Tektronix J-6512











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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