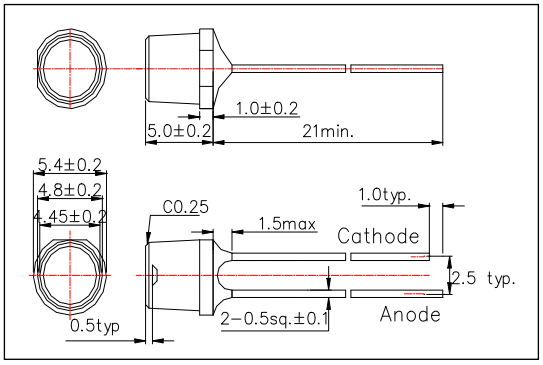
L880-05-55-2D
Infrared LED Lamp

L880-05-55-2D 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 880nm.
These Devices are intended to be operated at pulsed current of 2A under max. 4.0V.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L880-05-55-2D
3. Chip:
   - Chip material: AlGaAs
   - Peak Wavelength: 880nm typ.
4. Package
   - Type: Φ5mm Clear Molding
   - Resin Material: Epoxy Resin
   - Lead Frame: Soldered (Lead Frame)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25℃]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	150	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	2000	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	100	℃
Thermal Resistance	Rthja	340	K/W
Operating Temperature	TOPR	-40 ~ +85	℃
Storage Temperature	TSTG	-40 ~ +100	℃
Soldering Temperature**	TSOL	265	℃

* Duty=1% and Pulse Width=10us.
** Soldering condition must be completed within 3 second at 265 ℃.

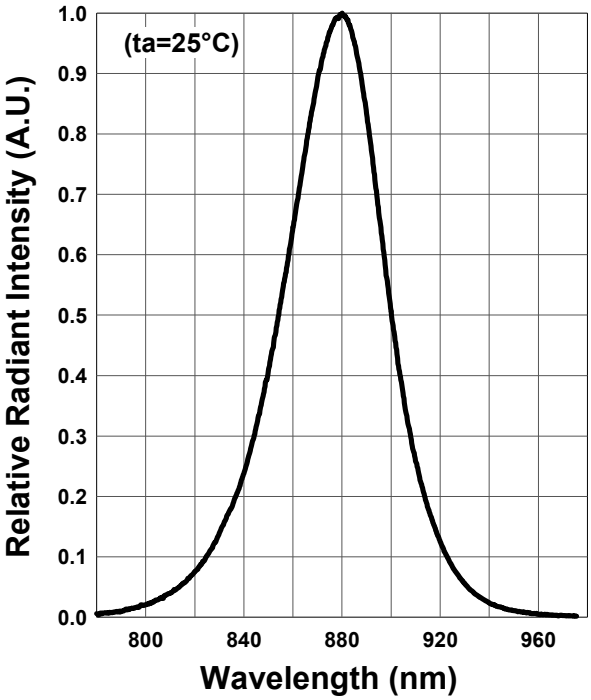
Electro-Optical Characteristics [Ta=25℃]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.45		V
	VFP	IFP=2000mA		4.0		
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=50mA	13	18		mW
		IFP=2000mA		720		
Radiant Intensity**	IE	IF=50mA		7.0		mW/sr
		IFP=2000mA		280		
Peak Wavelength	λP	IF=50mA	870	880	890	nm
Half Width	Δλ	IF=50mA		45		nm
Viewing Half Angle	θ1/2	IF=50mA		±55		deg
Rise Time	tr	IF=50mA		30		ns
Fall Time	tf	IF=50mA		30		ns

* Measured by Photodyne #500
** Measured by Tektronix J-6512

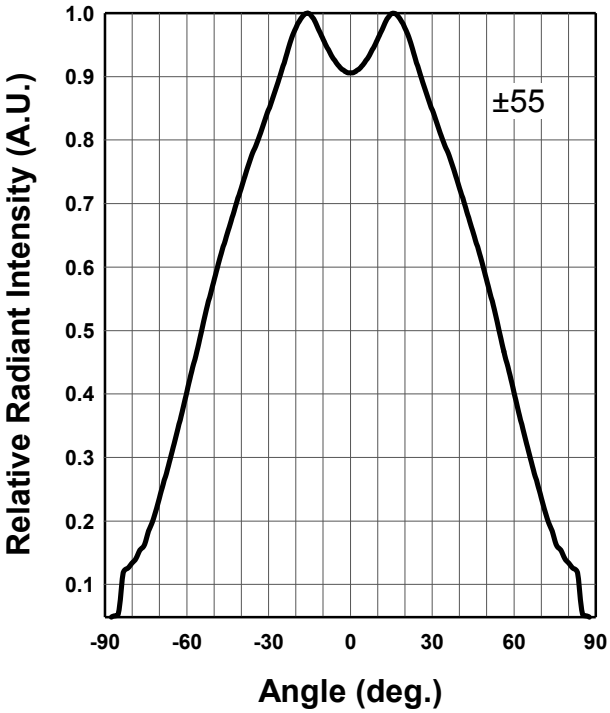
RoHS Compliant

Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Email: sales@tech-led.com | URL: www.tech-led.com

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.

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.

2013.02