

# Lead ( Pb ) Free Product - RoHS Compliant

# L880-05-55-2D

# Infrared LED Lamp

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

◆Specifications

1) Product Name Infrared LED Lamp L880-05-55-2D 2) Type No.

3) Chip

(1) Chip Material **AIGaAs** (2) Peak Wavelength 880nm typ.

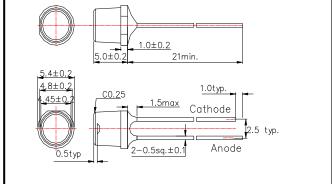
4) Package

(1) Type Φ5mm clear molding

(2) Resin Material Epoxy Resin (3) Lead Frame Soldered

◆ Absolute Maximum Ratings [Ta=25°C]

♦ Outer dimension (Unit: mm)



Item	Symbol Maximum Rated Value		Unit	
Power Dissipation	Po	150	mW	
Forward Current	lF	100	mA	
Pulse Forward Current	IFP	2000	mA	
Reverse Voltage	VR	5	V	
Junction Temperature	TJ	100	°C	
Thermal Resistance	Rthjp	340	K/W	
Operating Temperature	Topr	-40 ~ +85	°C	
Storage Temperature	Тѕтс	-40 ~ +100	°C	
Soldering Temperature	Tsol	265	°C	
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<sup>‡</sup>Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	I=50mA		1.45		V
	VFP	IFP=2000mA		4.0		
Reverse Current	lr	Vr=5V			10	uA
Total Radiated Power	Ро	I=50mA	13.0	18.0		mW
		IFP=2000mA		720		
Radiant Intensity	lE	I=50mA		7.0		mW/sr
	IE .	IFP=2000mA		280		
Peak Wavelength	λР	I=50mA	870	880	890	nm
Half Width	Δλ	I=50mA		45		nm
Viewing Half Angle	θ 1/2	Ir=50mA		±55		deg.
Rise Time	tr	IF=50mA		30		ns
Fall Time	tf	IF=50mA		30		ns

<sup>‡</sup>Total Radiated Power is measured by S3584-08.

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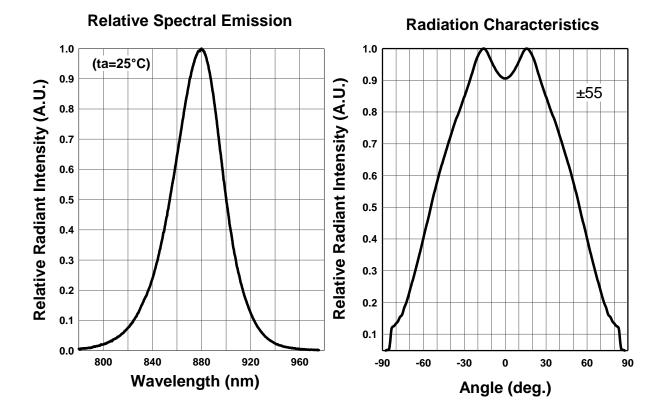
e-mail: sales-dep@epitex.com http://www.epitex.com/

<sup>‡</sup>Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

<sup>‡</sup>Radiant Intensity is measured by Tektronix J-6512.



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## **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