Lead (Pb) Free Product – RoHS Compliant

L880-04AU

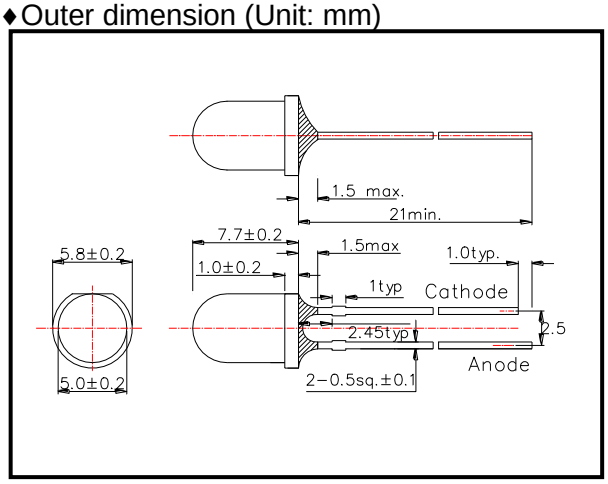
Infrared LED Lamp

L880-04AU 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.

♦Specifications

1) Product Name	Infrared LED Lamp
2) Type No.	L880-04AU
3) Chip	
(1) Chip Material	AlGaAs
(2) Peak Wavelength	880nm 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	170	mW
Forward Current	I_F	100	mA
Pulse Forward Current	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Thermal Resistance	R_{thja}	250	K/W
Junction Temperature	T_j	100	°C
Operating Temperature	T_{OPR}	-40 ~ +85	°C
Storage Temperature	T_{STG}	-40 ~ +100	°C
Soldering Temperature	T_{SOL}	265	°C

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.
‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F=50mA		1.5	1.7	V
Radiated Power	P_O	I_F=50mA		22		mW
Brightness	I_E	I_F=50mA		40		mcd
Peak Wavelength	λ_P	I_F =50mA		880		nm
Half Width	$\Delta\lambda$	I_F =50mA		40		nm
Viewing Half Angle	$\theta_{1/2}$	I_F 50mA		±18		deg.
Rise Time	tr	I_F=50mA		15		ns
Fall Time	tf	I_F=50mA		10		ns

‡Radiated Power is measured by Photodyne #500.
‡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.

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