

L830-06AU

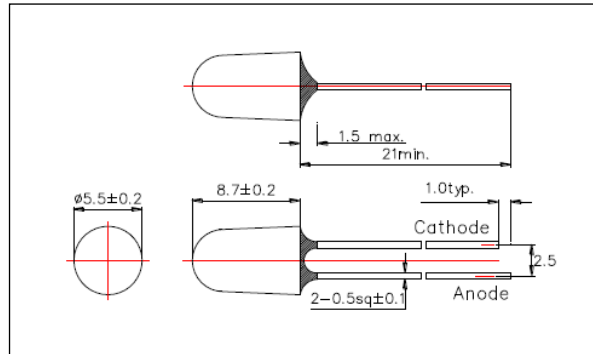
Infrared LED Lamp

L830-06AU 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 830nm.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L830-06AU
3. Chip:
 - Chip material: AlGaAs
 - Peak Wavelength: 830nm typ.
4. Package
 - Type: Φ5mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	170	W
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	500	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	240	K/W
Junction Temperature	Tj	100	°C
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	250	°C

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

** Soldering condition must be completed within 5 second at 250 °C.

Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.6	1.8	V
Total Radiated Power*	PO	IF=50mA		18		mW
Brightness	IV	IF=50mA		130		Mcd
Peak Wavelength	λP	IF=50mA	820	830	840	nm
Half Width	$\Delta\lambda$	IF=50mA		35		nm
Viewing Half Angle	$\theta_{1/2}$	IF=50mA		± 7		deg
Rise Time	tr	IF=50mA		50		ns
Fall Time	tf	IF=50mA		25		ns

* Measured by Photodyne #500



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.