

L735-33AU

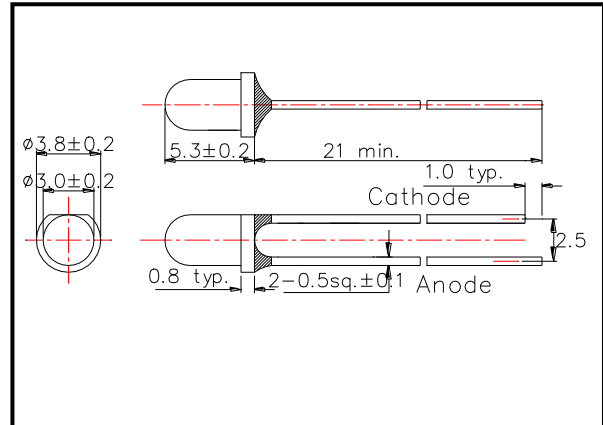
Infrared LED Lamp

L735-33AU is an AlGaAs LED mounted on a lead frame with a clear epoxy lens. On forward bias it emits a spectral band of radiation, which peaks at 735nm.

◆ Specifications

- 1) Product Name Infrared LED Lamp
- 2) Type No. L735-33AU
- 3) Chip
 - (1) Chip Material AlGaAs
 - (2) Chip Active Area 400um x 400um
 - (3) Peak Wavelength 735nm typ.
- 4) Package
 - (1) Type $\Phi 3$ mm 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	200	mW
Forward Current	I _F	75	mA
Pulse Forward Current	I _{FP}	500	mA
Reverse Voltage	V _R	5	V
Thermal Resistance	R _{thja}	240	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}	250	°C

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 250°C

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =50mA		1.85	2.00	V
Radiated Power	P _O	I _F =50mA	13	18		mW
Total Radiated Power	I _E	I _F =50mA	25	40		mcd
Peak Wavelength	λ_P	I _F =50mA	720	735	750	nm
Half Width	$\Delta\lambda$	I _F =50mA		30		nm
Viewing Half Angle	$\theta_{1/2}$	I _F 50mA		± 15		deg.
Rise Time	t _r	I _F =50mA		80		ns
Fall Time	t _f	I _F =50mA		80		ns

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‡Radiated Power is measured by Photodyne #500.

‡Radiant Intensity is 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.

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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