## LED770-03AU Infrared LED Lamp

LED770-03AU 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 770 nm.

## ◆Specifications

Product Name Infrared LED Lamp
Type No. LED770-03AU

3) Chip

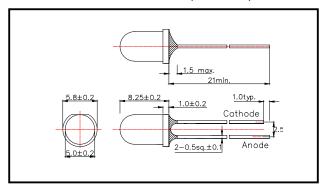
(1) Chip Material AlGaAs(2) Peak Wavelength 770 nm typ.

4) Package

(1) Type  $\Phi$ 5mm clear molding

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

## ♦ Outer dimension (Unit: mm)



## ♦ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value Unit		Ambient Temperature			
Power Dissipation	Po	190 mW		Ta=25°C			
Forward Current	lF	100	mΑ	Ta=25°C			
Pulse Forward Current	lfp	500	mΑ	Ta=25°C			
Reverse Voltage	Vr	5	V	Ta=25°C			
Operating Temperature	Topr	-30 ~ +85	°C				
Storage Temperature	Tstg	-30 ~ +100	°C				
Soldering Temperature	TsoL	260	°C				

<sup>‡</sup>Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.75	1.95	V
Reverse Current	lr	Vr=5V			10	uA
Total Radiated Power	Po	IF=50mA	13.0	18.0		mW
Radiant Intensity	lε	IF=50mA	35	70		mW/sr
Peak Wavelength	λР	I==50mA	750	770	790	nm
Half Width	Δλ	IF=50mA		35		nm
Viewing Half Angle	θ 1/2	IF=50mA		±15		deg.
Rise Time	tr	IF=50mA		80		ns
Fall Time	tf	IF=50mA		80		ns

<sup>‡</sup>Total Radiated Power is measured by Photodyne #500

<sup>‡</sup>Soldering condition: Soldering condition must be completed within 5seconds at 265°C

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