

# LED770-03AU

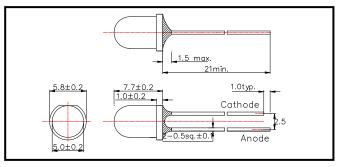
## Infrared LED Lamp

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

#### Outer dimension (Unit: mm)

1) Product Name	Infrared LED Lamp
2) Type No.	LED770-03AU
3) Chip	
(1) Chip Material	AlGaAs
(2) Peak Wavelength	770 nm typ.
4) Package	
(1) Type	5 mm clear molding
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered



#### **Absolute Maximum Ratings**

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature	
Power Dissipation	PD	190	mW	Ta = 25°C	
Forward Current	lf	100	mA	Ta = 25°C	
Pulse Forward Current	IFP	500	mA	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	Tso∟	260	°C		

Pulse Forward Current condition: Duty = 1% and Pulse Width = 10 µs. Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	Vf	IF = 50 mA		1.75	1.95	V
Reverse Current	IR	Vr = 5 V			10	uA
Total Radiated Power	Po	IF = 50 mA	13.0	18.0	]	mW
Radiant Intensity	ΙE	IF = 50 mA	18	35		mW/sr
Peak Wavelength	λΡ	IF = 50 mA	750	770	790	nm
Half Width	Δλ	IF = 50 mA		35		nm
Viewing Half Angle	.α	IF = 50 mA		±15		deg.
Rise Time	tr	IF = 50 mA		80		ns
Fall Time	tf	IF = 50 mA		80		ns

‡Total Radiated Power is measured by Photodyne #500 ‡Radiant Intensity is measured by Tektronix J-6512