

## L1070-05

## Infrared LED Lamp

L1070-05 is an InGaAsP LED mounted on a lead frame with a clear epoxy lens. On forward bias it emits a spectral band of radiation which peaks at 1070nm.

## <Specifications>

1. Product Name: Infrared LED Lamp

2. Type Number: L1070-05

3. Chip:

- Chip material: InGaAsP

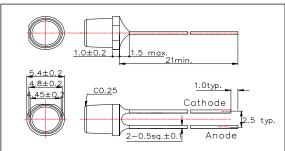
- Peak Wavelength: 1070nm typ.

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	120	mW					
Forward Current	IF	100	mA					
Pulse Forward Current*	IFP	1000	mA					
Reverse Voltage	VR	5	V					
Operating Temperature	TOPR	-30 ~ +85	°C					
Storage Temperature	TSTG	-30 ~ +100	°C					
Soldering Temperature**	TSOL	260	°C					

<sup>\*</sup> Duty=1% and Pulse Width=10us.

<sup>\*\*</sup> Soldering condition must be completed within 3 second at 260 °C.

Electro-Optical Characteristics [Ta=25℃ ]									
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit			
Forward Voltage	VF	IF=50mA		1.2	1.4	V			
Reverse Current	IR	VR=5V			10	uA			
Total Radiated Power*	РО	IF=50mA	1.0	2.0		mW			
Radiant Intensity**	IE	IF=50mA		0.8		mW/sr			
Peak wavelength	λP	IF=50mA	1020	1070	1120	nm			
Half Width	Δλ	IF=50mA		55		nm			
Viewing Half Angle	θ1/2	IF=50mA		±55		deg			
Rise Time	tr	IF=50mA		10		ns			
Fall Time	tf	IF=50mA		10		ns			

<sup>\*</sup> Measured by Photodyne #500 Radiated Power is measured by Ando Optical Multi Meter AQ2140(setted at 1070nm range) & AQ2742

**RoHS** Compliant

<sup>\*\*</sup> Measured by Tektronix J-6512