

L940-02L6CU

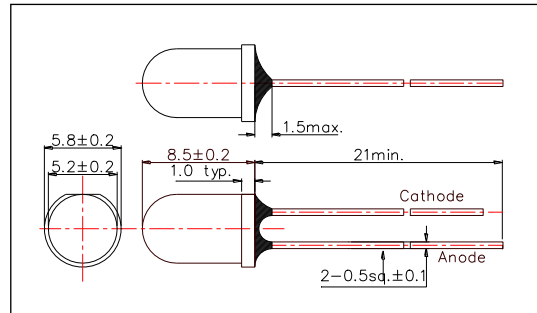
Infrared LED Lamp

L940-02L6CU is an AlGaAs LED mounted on a copper made lead frame with a clear epoxy lens. And it is 40mW typical of output power at 940nm.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L940-02L6CU
3. Chip:
 - Chip material: AlGaAs
 - Peak Wavelength: 940nm typ.
4. Package
 - Type: Φ5mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Cu made

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	160	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	1000	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	100	°C
Thermal Resistance**	Rthja	190	K/W
Operating Temperature	TOPR	-30 ~ +85	°C
Storage Temperature	TSTG	-30 ~ +100	°C
Soldering Temperature***	TSOL	265	°C

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

** Junction - ambient, leads 7mm, soldered on PCB.

*** Soldering condition must be completed within 3 second at 265°C.

Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA DC		1.3	1.4	V
		IF=100mA,t=20ms		1.4	1.6	
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=50mA DC	16	20		mW
		IF=100mA,t=20ms		40		
Radiant Intensity**	IE	IF=50mA DC		105		mW/sr
		IF=100mA,t=20ms		210		
Peak Wavelength	λP	IF=50mA DC	930	940	955	nm
Half Width	Δλ	IF=50mA DC		50		nm
Viewing Half Angle	θ1/2	IF=50mA DC		±6		deg
Rise Time	tr	IF=50mA DC		1000		ns
Fall Time	tf	IF=50mA DC		500		ns

* Measured by Photodyne #500

** Measured by Tektronix J-6512



