

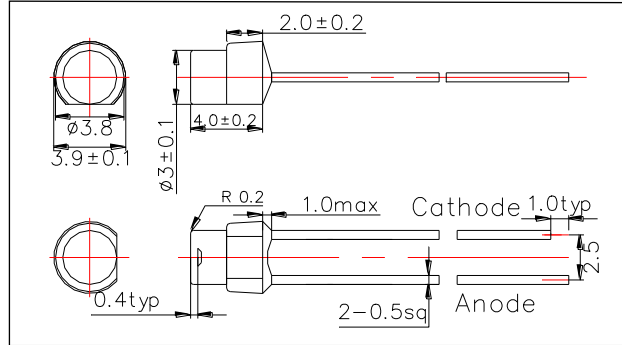
L940-31-2C
Infrared LED Lamp

L940-31-2C 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 940nm.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L940-31-2C
3. Chip:
 - Chip material: AlGaAs
 - Peak Wavelength: 940nm typ.
4. Package
 - Type: Φ3mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame/cup: 0.35mm depth
 - Lead Frame: Soldered (Lead Free)

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	280	K/W
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +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		1.3	1.4	V
Total Radiated Power*	PO	IF=50mA	10	14		mW
Radiant Intensity**	IE	IF=50mA		5.5		mW/sr
Peak wavelength	λP	IF=50mA	930	940	955	nm
Half Width	Δλ	IF=50mA		50		nm
Viewing Half Angle	θ1/2	IF=50mA		±52		deg
Rise Time	tr	IF=50mA		1000		ns
Fall Time	tf	IF=50mA		500		ns

* Measured by Photodyne #500

** Measured by Tektronix J-6512



