

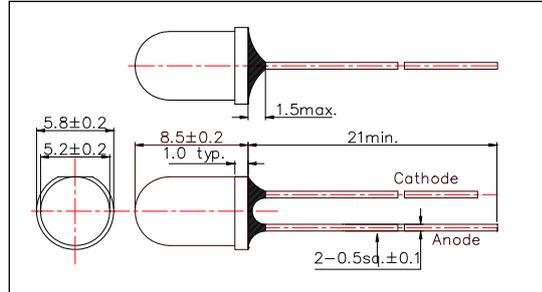
**L950D-02**  
Infrared LED Lamp

L950D-02 is an AlGaAs LED mounted on a lead frame with a clear epoxy lens. And it is 60mW typical of output power at 950nm.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L950D-02
3. Chip:
  - Chip material: AlGaAs
  - Peak Wavelength: 950nm 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	170	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	1000	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	120	°C
Thermal Resistance	Rthja	180	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.

\*\* 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		1.50		V
		IF=100mA,t=20ms		1.65		
Total Radiated Power*	PO	IF=50mA DC		30		mW
		IF=100mA,t=20ms		60		
Radiant Intensity**	IE	IF=50mA DC		300		mW/sr
		IF=100mA,t=20ms		600		
Peak Wavelength	λP	IF=50mA DC		950		nm
Half Width	Δλ	IF=50mA DC		48		nm
Viewing Half Angle	θ1/2	IF=50mA DC		±3.5		deg
Rise Time	tr	IF=50mA DC		22		ns
Fall Time	tf	IF=50mA DC		25		ns

\* Measured by Photodyne #500

\*\* Measured by Tektronix J-6512

