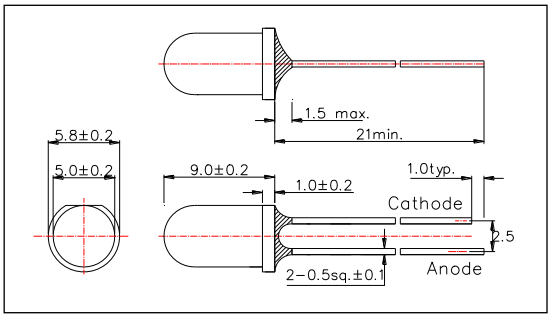
L980-01
Infrared LED Lamp

L980-01 is an GaAs LED mounted on a lead frame with a clear epoxy lens.
On forward bias it emits a spectral band of radiation which peaks at 985nm.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L980-01
3. Chip:
   - Chip material: GaAs
   - Dimension: 350um x 350um
   - Peak Wavelength: 985nm 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℃]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	130	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	1000	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	100	℃
Thermal Resistance**	Rthja	250	K/W
Operating Temperature	TOPR	-30 ~ +85	℃
Storage Temperature	TSTG	-30 ~ +100	℃
Soldering Temperature***	TSOL	265	℃

* Duty=1% and Pulse Width=10us.
** Junction - ambient,leads 7mm, soldered on PCB.
*** Soldering condition must be completed within 3 second at 265℃.

Electro-Optical Characteristics [Ta=25℃]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA DC		1.25	1.40	V
	VFP	IF=100mA,tp=20ms		1.30	1.60	
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=50mA DC	2	4		mW
		IF=100mA,tp=20ms		8		
Radiant Intensity**	IE	IF=50mA DC		12		mW/sr
		IF=100mA,tp=20ms		24		
Peak Wavelength	λP	IF=50mA DC	975	985	995	nm
Half Width	Δλ	IF=50mA DC		45		nm
Viewing Half Angle	θ1/2	IF=50mA DC		±10		deg
Rise Time	Tr	IF=50mA DC		40		ns
Fall Time	tf	IF=50mA DC		20		ns

* Measured by Photodyne #500
** Measured by Tektronix J-6512

RoHS Compliant

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