

L640-31-50-2C
Fiber Use Red LED Lamp

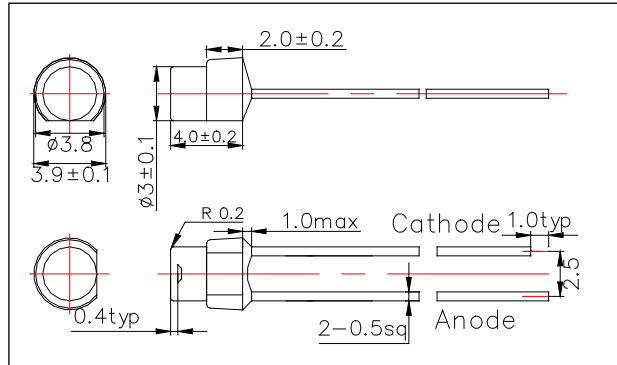
L640-31-50-2C is with off-set type InGaAlP die and mounted on a lead frame with a clear epoxy flat lens for fiber use.

On forward bias, it emits a band of visible light that peaks 635nm.

<Specifications>

1. Product Name: Fiber Use Red LED
2. Type Number: L640-31-50-2C
3. Chip:
 - Chip material: InGaAlP/GaAs
 - Chip Size: 500um x 500um off-set
 - Peak Wavelength: 635nm typ.
4. Package
 - Type: Φ3mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Soldered(Lead Free)
 - Lead Frame/Cup: 0.35mm depth

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	220	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	500	mA
Reverse Voltage	VR	5	V
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	260	°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=20mA		1.86	2.00	V
Reverse Current	IR	VR=5V			10	μA
Total Radiated Power*	PO	IF=20mA	4.0	7.0		mW
Brightness	IV	IF=20mA		500		mcd
Radiant Intensity**	IE	IF=20mA		2.5		mW/sr
Peak Wavelength	λP	IF=20mA	625	635	645	nm
Half Width	Δλ	IF=20mA		18		nm
Viewing Half Angle	θ1/2	IF=20mA		±50		deg

* Measured by Photodyne #500

** Measured by Tektronix J-6512

