

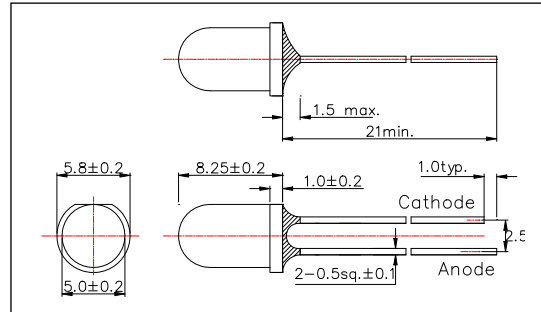
L630-01 Super Bright Orange LED Lamp

L630-01 is an InGaAlP LED mounted on a lead frame with a clear epoxy resin. On forward bias, it emits a band of visible light that peaks 635nm.

<Specifications>

1. Product Name: Orange LED Lamp
2. Type Number: L630-01
3. Chip:
 - Chip material: InGaAlP
 - Peak Wavelength: 635nm typ.
4. Package
 - Type: Φ5mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temp.
Power Dissipation	PD	140	mW	Ta=25°C
Forward Current	IF	50	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Junction Temperature	Tj	100	°C	
Thermal Resistance*	Rthjp	340	K/W	
Operating Temperature	TOPR	-40 ~ +85	°C	
Storage Temperature	TSTG	-40 ~ +100	°C	
Soldering Temperature**	TSOL	265	°C	

* 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=20mA		2.1	2.3	V	
Optical Efficiency	Lm	IF=20mA		63		Lm/W	
Total Radiated Power*	PO	IF=20mA	5.0	9.0		mW	
Radiant Intensity	IE	IF=20mA		30		mW/sr	
Brightness**	IV	IF=20mA	5,000	8,000		mcd	
Wavelength	Peak	λP	IF=20mA	625	635	645	nm
	Dominant	λD	IF=20mA		625		
Half Width	Δλ	IF=20mA		20		nm	
Viewing Half Angle	θ1/2	IF=20mA		±10		deg	

* Measured by Photodyne #500

** Measured by Tektronix J-16

