

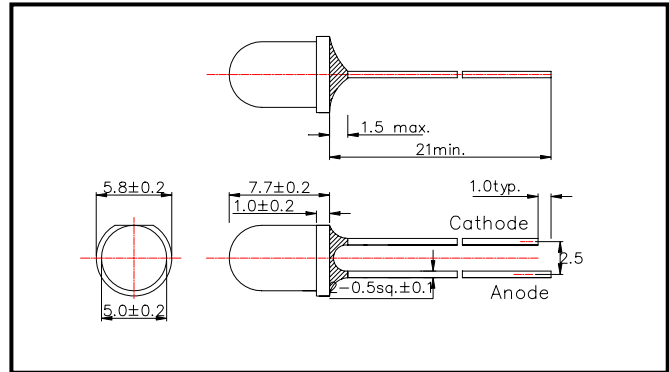
# L630-04 Super Bright Orange LED

L630-04 is an InGaAlP LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light which peaks 630nm.

## ◆ Specifications

1) Product Name	Super Orange LED
2) Type No.	L630-04
3) Chip	
(1) Chip Material	InGaAlP
(2) Peak Wavelength	630nm typ.
4) Package	
(1) Type	Φ5mm clear molding
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered( Lead Free)

## ◆ Outer dimension (Unit: mm)



## ◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	$P_D$	120	mW	$T_a=25^\circ\text{C}$
Forward Current	$I_F$	50	mA	$T_a=25^\circ\text{C}$
Pulse Forward Current	$I_{FP}$	-	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	$V_R$	5	V	$T_a=25^\circ\text{C}$
Junction Temperature	$T_J$	100	$^\circ\text{C}$	
Thermal Resistance	$R_{thja}$	240	K/W	
Operating Temperature	$T_{OPR}$	-40 ~ +80	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-40 ~ +100	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	265	$^\circ\text{C}$	

‡Soldering condition: Soldering condition must be completed within 3 seconds at  $265^\circ\text{C}$

‡Thermal resistance: junction – ambient, leads 7mm, soldered on PCB.

## ◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	$V_F$	$I_F=20\text{mA}$		2.1	2.3	V
Reverse Current	$I_R$	$V_R=5\text{V}$			10	$\mu\text{A}$
Radiated Power	$P_O$	$I_F=20\text{mA}$		12.0		mW
Radiant Intensity	$I_E$	$I_F=20\text{mA}$		10		mW/sr
Brightness	$I_V$	$I_F=20\text{mA}$		2,200		mcd
Wavelength	$\lambda_P$	$I_F=20\text{mA}$	620	630	640	nm
Half Width	$\Delta\lambda$	$I_F=20\text{mA}$		15		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$		$\pm 30$		deg.

‡Radiated Power is measured by S3584-08

‡Brightness is measured by Tektronix J-16.