

L630-__W Ultra Bright Red LED Lamp

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

1) Specifications

- (1) Chip material InGaAlP
- (2) Peak wavelength 635nm typ.
- (3) Package Clear epoxy resin
- (4) Lead frame Soldered

2) Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	140	mW	T _a =25°C
Forward Current	I _F	50	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	T _a =25°C
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

3) Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		2.2	2.6	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		4.0		mW
Peak Wavelength	λ _P	I _F =20mA	625	635	645	nm
Half Width	Δλ	I _F =20mA		20		nm

4) Characteristics of Brightness [T_a=25°C]

Type	Viewing Half Angle	Brightness I _F =20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L630-01W	±9°		5000		Φ5	1
L630-02W	±3°		8000		Φ5	2
L630-03W	±12°		4000		Φ5	3
L630-04W	±15°		1500		Φ5	4
L630-05W	±30°		300		Φ5	5
L630-06W	±3°		16000		Φ5	6
L630-09W	±25°(Long)		1600		Φ5	7
	±15°(Short)			Oval		
L630-10W	±5°		18000		Φ10	8
L630-33W	±16°		2000		Φ3	9
L630-36W	±30°		1000		Φ3	10

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.