

# 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	PD	140	mW	Ta=25°C
Forward Current	IF	50	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85	°C	Ta=25°C
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature	TSOL	260	°C	

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		2.2	2.6	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power	PO	IF=20mA		4.0		mW
Peak Wavelength	λP	IF=20mA	625	635	645	nm
Half Width	Δλ	IF=20mA		20		nm

### 4) Characteristics of Brightness [Ta=25°C]

Type	Viewing Half Angle	Brightness IF=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		
L630-31W					φ3	8
L630-33W	±16°		2000		φ3	9
L630-34W					φ3	10
L630-36W	±30°		1000		φ3	11
L630-41W					φ4	12
L630-42W					φ4	12

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.