

L610-__ _V High Bright Orange LED Lamp

This series of L610-__ _V 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 610nm.

1) Specifications

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|---------------------|-------------------|
| (1) Chip material | InGaAlP |
| (2) Peak wavelength | 610nm 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	110	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		2.0	2.3	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power	PO	IF=20mA		1.0		mW
Peak Wavelength	λP	IF=20mA	600	610	620	nm
Half Width	Δλ	IF=20mA		15		nm

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

Type	Viewing Half Angle	Brightness IF=20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L610-01V	±9°		3500		φ5	1
L610-02V	±3°		7000		φ5	2
L610-03V	±11°		2500		φ5	3
L610-04V	±14°		1000		φ5	4
L610-05V	±35°		260		φ5	5
L610-06V	±3°		10000		φ5	6
L610-09V	±25°(Long)		1200		φ5	7
	±15°(Short)					
L610-31V					φ3	8
L610-33V	±18°		1500		φ3	9
L610-34V					φ3	10
L610-36V	±40°		500		φ3	11
L610-41V					φ4	12
L610-42V					φ4	12

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.