



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	P _D	110	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		2.0	2.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		1.0		mW
Peak Wavelength	λ _P	I _F =20mA	600	610	625	nm
Half Width	Δλ	I _F =20mA		15		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
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)				Oval	
L610-10V	±5°		10000		φ10	8
L610-33V	±18°		1500		φ3	9
L610-36V	±40°		500		φ3	10

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.