



L660-__ _V High Bright Red LED Lamp

This series of L660-__ _V is an AlGaAs LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light that peaks 660nm.

1) Specifications

- | | |
|---------------------|-------------------|
| (1) Chip material | AlGaAs/AlGaAs |
| (2) Peak wavelength | 660nm 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	120	mW	Ta=25°C
Forward Current	I _F	50	mA	Ta=25°C
Reverse Voltage	V _R	5	V	Ta=25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	Ta=25°C
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		1.9	2.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		5.5		mW
Peak Wavelength	λ _P	I _F =20mA	650	660	670	nm
Half Width	Δλ	I _F =20mA		20		nm

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

Type	Viewing Half Angle	Brightness I _F =20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L660-01V	±10°		2000		φ5	1
L660-02V	±6°		4000		φ5	2
L660-03V	±12°		1300		φ5	3
L660-04V	±15°		750		φ5	4
L660-05V	±30°		150		φ5	5
L660-06V	±6°		4000		φ5	6
L660-09V	±25°(Long)		900		φ5	7
	±15°(Short)				Oval	
L660-10V	±5°		4000*		φ10	8
L660-33V	±15°		800		φ3	9
L660-36V	±30°		500		φ3	10

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.