

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	PD	120	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		1.9	2.3	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power	PO	IF=20mA		4.5		mW
Peak Wavelength	P	IF=20mA	650	660	670	nm
Half Width		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
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 Oval	7
	±15°(Short)					
L660-31V					φ3	8
L660-33V	±15°		800		φ3	9
L660-34V					φ3	10
L660-36V	±30°		500		φ3	11
L660-41V	±16°				φ4	12
L660-42V	±22°				φ4	12

‡ Brightness is measured by Tektronix J-16.

‡ Total Radiated Power is measured by Photodyne #500.