

Lead ( Pb ) Free Product – RoHS Compliant

# L660N-06

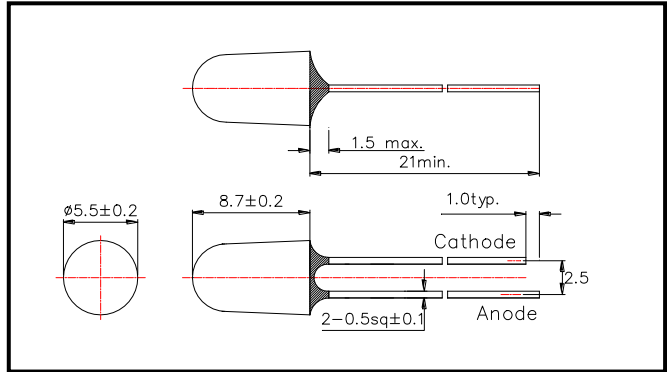
For Plant Growth and Photo Synthetically Active Radiation use

L660N-06 is an AlGaInP LED mounted on a lead frame with a clear epoxy lens. This is designed for the highest Po and dampproof. On forward bias it emits a band of visible light, which peaks 660nm.

◆ Specifications

- 1) Product Name      Red LED Lamp
- 2) Type No.          L660N-06
- 3) Chip
- (1) Chip Material      AlGaInP
- (2) Peak Wavelength   660nm typ.
- 4) Package
- (1) Type                Φ5mm clear molding
- (2) Resin Material      Epoxy Resin
- (3) Lead Frame        Soldered

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	120	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	50	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	5	V	T <sub>a</sub> =25°C
Junction Temperature	T <sub>J</sub>	100	°C	
Thermal Resistance	R <sub>thjp</sub>	190	K/W	
Operating Temperature	T <sub>OPR</sub>	-40 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-40 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	265	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

‡Thermal resistance: junction – ambient, leads 7mm, soldered on PCB

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA		2.10	2.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V			10	uA
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA	10	15		mW
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> =50mA		120		mW/sr
Brightness	I <sub>V</sub>	I <sub>F</sub> =20mA		13,000		mcd
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	650	660	670	nm
Half Width	Δλ	I <sub>F</sub> =20mA		18		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =20mA		±3		deg.

‡Brightness is measured by Tektronix J-16.

‡Total Radiated Power is measured by Photodyne #500

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