

L660N-06

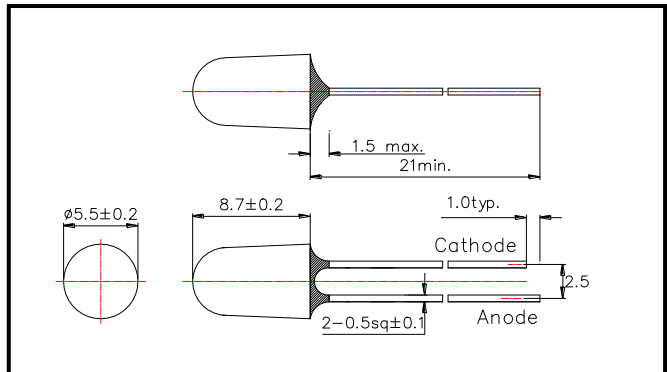
For Plant Growth and Photo Synthetically Active Radiation use

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 Φ 5mm 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_D	130	mW	$T_a = 25^\circ\text{C}$
Forward Current	I_F	50	mA	$T_a = 25^\circ\text{C}$
Reverse Voltage	V_R	5	V	$T_a = 25^\circ\text{C}$
Operating Temperature	T_{OPR}	-30 ~ +80	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	T_{SOL}	265	$^\circ\text{C}$	

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

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$		2.15	2.40	V
Reverse Current	I_R	$V_R = 5\text{V}$			10	μA
Total Radiated Power	P_O	$I_F = 20\text{mA}$	12	18		mW
Radiant Intensity	I_E	$I_F = 50\text{mA}$		110		mW/sr
Brightness	I_V	$I_F = 20\text{mA}$		5500		mcd
Peak Wavelength	λ_P	$I_F = 20\text{mA}$	650	660	670	nm
Half Width	$\Delta\lambda$	$I_F = 20\text{mA}$		18		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$		± 6		deg.

‡Brightness is measured by Tektronix J-16.

‡Total Radiated Power is measured by Photodyne #500