

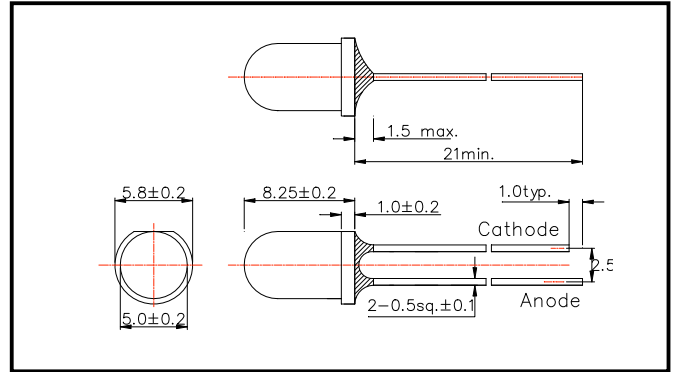
# L610-01 Super Bright Orange LED Lamp

L610-01 is an AlInGaP LED mounted on a lead frame with a clear epoxy lens. On forward bias it emits a band of visible light, which peaks 610nm.

◆ Specifications

- 1) Product Name Super bright Orange LED
- 2) Type No. L610-01
- 3) Chip
  - (1) Chip Material AlInGaP
  - (2) Peak Wavelength 610nm typ.
- 4) Package
  - (1) Type Φ5mm clear molding
  - (2) Resin Material Epoxy Resin
  - (3) Lead Frame Soldered(Lead Free)

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	190	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	75	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	
Operating Temperature	T <sub>OPR</sub>	-30 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	265	°C	

‡Soldering condition : Soldering condition must be completed within 5 seconds at 265°C

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA		2.1	2.4	V
		I <sub>F</sub> =50mA		2.4	2.7	
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA		8.0		mW
		I <sub>F</sub> =50mA		18.0		
Brightness	I <sub>v</sub>	I <sub>F</sub> =20mA		9000		mcd
		I <sub>F</sub> =50mA		20500		
Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	600	610	620	nm
	λ <sub>D</sub>			605		
Half Width	Δλ	I <sub>F</sub> =20mA		15		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =20mA		±13		deg.

‡Brightness is measured by Tektronix J-16.

‡Total Radiated Power is measured by Photodyne #500