

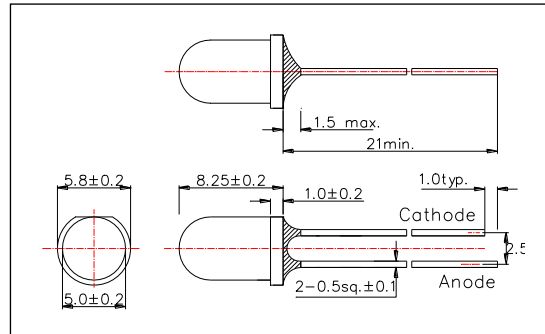
## L590-02 Super Bright Yellow LED Lamp

L590-02 is an InGaAlP LED mounted on a lead frame with a clear epoxy resin. On forward bias, it emits a band of visible light that peaks 590nm.

<Specifications>

1. Product Name: Yellow LED Lamp
2. Type Number: L590-02
3. Chip:
  - Chip material: InGaAlP
  - Peak Wavelength: 590nm typ.
4. Package
  - Type: Φ5mm Clear Molding
  - Resin Material: Epoxy Resin
  - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temp.
Power Dissipation	PD	130	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	
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature*	TSOL	265	°C	

\* Soldering condition must be completed within 3 second at 265 °C.

Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		2.2	2.5	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=20mA		4.0		mW
Brightness**	IV	IF=20mA		20,000		mcd
Peak Wavelength	λP	IF=20mA	580	590	600	nm
Half Width	Δλ	IF=20mA		16		nm
Viewing Half Angle	θ1/2	IF=20mA		±3		deg

\* Measured by Photodyne #500

\*\* Measured by Tektronix J-16

