

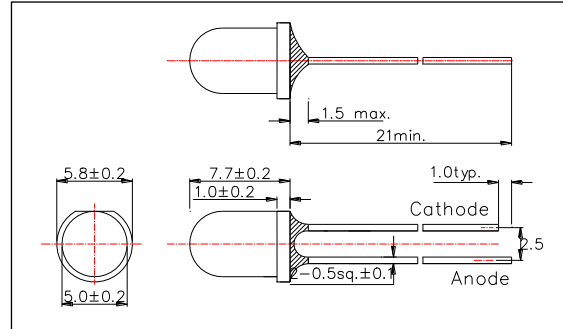
L590-04 Super Bright Yellow LED Lamp

L590-04 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: L590-04
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[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	130	mW
Forward Current	IF	50	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	100	°C
Thermal Resistance*	Rthja	360	K/W
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Junction - ambient, leads 7mm, soldered on PCB.

** 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		3.0		mW
Radiant Intensity	IE	IF=20mA		3.6		mW/sr
Brightness**	IV	IF=20mA		2200		mcd
Peak Wavelength	λP	IF=20mA	580	590	600	nm
Half Width	Δλ	IF=20mA		15		nm
Viewing Half Angle	θ1/2	IF=20mA		±20		deg

* Measured by S3584-08

** Measured by Tektronix J-16

