

L590-09

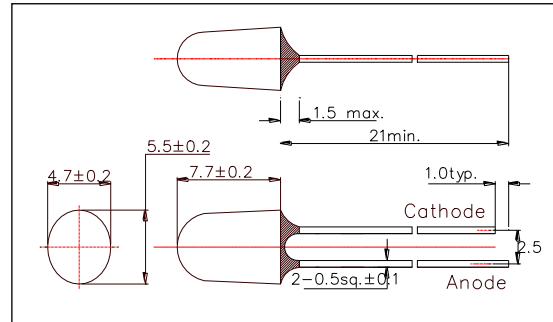
Oval Type Super Bright Yellow LED Lamp

L590-09 is an InGaAlP LED mounted on a lead frame with a clear epoxy oval lens and 4cd type. On forward bias, it emits a band of visible light that peaks 595nm.

<Specifications>

1. Product Name: Oval Type Yellow LED
2. Type Number: L590-09
3. Chip:
 - Chip material: InGaAlP
 - Peak Wavelength: 595nm 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
Pulse Forward Current*	IFP	300	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	100	°C
Thermal Resistance**	Rthja	330	K/W
Operating Temperature	TOPR	-30 ~ +80	°C
Storage Temperature	TSTG	-30 ~ +100	°C
Soldering Temperature***	TSOL	265	°C

* Duty=1% and Pulse Width=10us.

** 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		2.15	2.4	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=20mA	2.5	4.0		mW
Radiant Intensity	IE	IF=20mA		7.5		mW/sr
Brightness**	IV	IF=20mA	2500	4000		mcd
Peak Wavelength	λP	IF=20mA	590	595	605	nm
Half Width	Δλ	IF=20mA		15		nm
Viewing Half Angle	Long	θ1/2	IF=20mA		± 28	deg
	Short				± 16	

* Measured by Photodyne #500

** Measured by Tektronix J-16

