

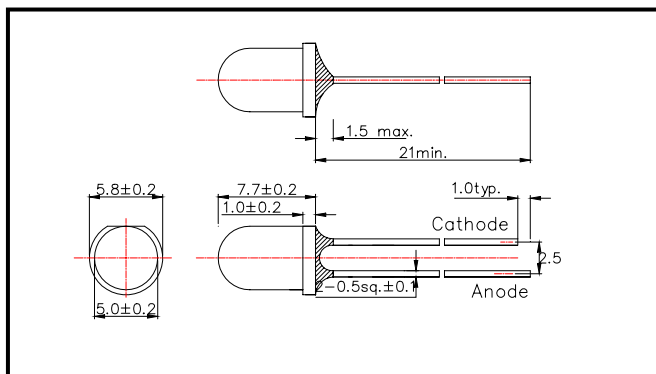
# L590-04V Super Bright Yellow LED

L590-04V is an InGaAlP/GaAs LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light, which peaks at 590nm.

◆ Specifications

- 1) Product Name Super bright yellow LED
- 2) Type No. L590-04V
- 3) Chip
  - (1) Chip Material InGaAlP/GaAs
  - (2) Peak Wavelength 590nm typ.
- 4) Package
  - (1) Type φ5mm 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 <sub>D</sub>	110	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	50	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	5	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-30 ~ +85	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	260	°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA		2.0	2.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =20mA			10	uA
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA		1.0		mW
Brightness	I <sub>v</sub>	I <sub>F</sub> =20mA		600		mcd
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	580	590	600	nm
Half Width	Δλ	I <sub>F</sub> =20mA		15		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =20mA		±14		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512