

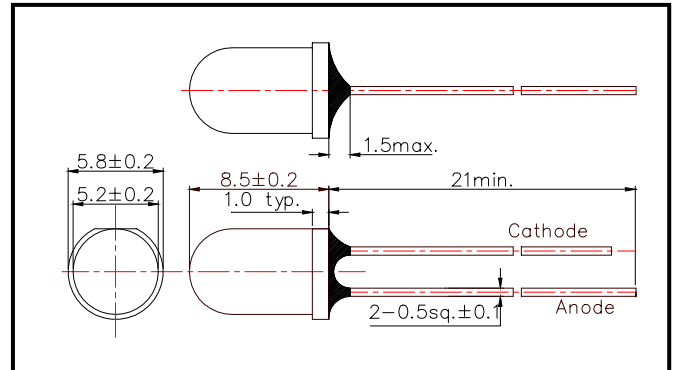
L590-02W Ultra Bright Yellow LED

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

◆ Specifications

1) Product Name	Ultra Bright Yellow LED
2) Type No.	L590-02W
3) Chip	
(1) Chip Material	AlGaInP
(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 _D	140	mW	T _a =25°C
Forward Current	I _F	50	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	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 _F	I _F =20mA		2.2	2.6	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		2.0		mW
Brightness	I _V	I _F =20mA		3000		mcd
Peak Wavelength	λ _P	I _F =20mA	580	590	600	nm
Half Width	Δλ	I _F =20mA		15		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±3		°

‡Brightness is measured by Tektronix J-16.

‡Total Radiated Power is measured by Photodyne #500

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