

L590CE-34F Yellow color Point Source LED

L590CE-34F is an InGaAlP point source LED mounted on a flat type lead frame and molded with a clear epoxy lens.

LED has emitted area 200micrometer diameter and no observed at side emission.

On forward bias it emits a spectral band of radiation, which peaks at 590nm.

Specifications

- 1) Product Name Point Source LED
- 2) Type No. L590CE-34F
- 3) Chip
 - (1) Chip Material InGaAlP on GaAs
 - (2) Peak Wavelength 590nm typ.
 - (3) Emitted Area 200um dia.
 - (4) Side Emission 0%
- 4) Package
 - (1) Type f3mm clear molding
 - (2) Resin Material Epoxy Resin
 - (3) Frame Flat type
 - (4) Lead Soldered

Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	70	mW	T _a =25°C
Forward Current	I _F	40	mA	T _a =25°C
Pulse Forward Current	I _{FP}	100	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	

‡ Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

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

Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		2.0	2.3	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA	0.4	0.8		mW
Radiant Intensity	I _E	I _F =20mA		0.8		mW/sr
Brightness	I _V	I _F =20mA	200	400		mcd
Peak Wavelength	λ _P	I _F =20mA	580	590	600	nm
Half Width	Δλ	I _F =20mA		13		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±10		deg.

‡ Total Radiated Power is measured by Photodyne #500

‡ Radiant Intensity is measured by Tektronix J-6512

Outer dimension (Unit: mm)

