

SMT590

High Performance Yellow color TOP LED

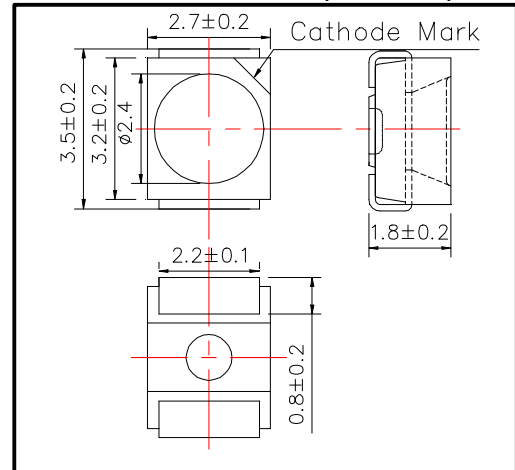
SMT590 consists of an AlGaInP LED mounted on the lead frame as TOP LED package and is 200mcd typical of Brightness.

It emits a spectral band of radiation at 590nm.

Specifications

- 1) Product Name TOP LED
- 2) Type No. SMT590
- 3) Chip
 - (1) Chip Material AlGaInP
 - (2) Peak Wavelength 590nm typ.
- 4) Package
 - (1) Lead Frame Die Silver Plated
 - (2) Package Resin PPA Resin
 - (3) Lens Epoxy Resin

Outer dimension (Unit: mm)



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	mW	Ta=25°C
Forward Current	I _F	50	mA	Ta=25°C
Reverse Voltage	V _R	5	V	Ta=25°C
Operating Temperature	T _{OPR}	-20 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +80	°C	
Soldering Temperature	T _{SOL}	240	°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 240°C

Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		2.00	2.30	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	100	200		mcd
Peak Wavelength	λ _P	I _F =20mA	580	590	600	nm
Half Width	Δλ	I _F =20mA		20		nm
Viewing Half Angle	2θ _{1/2}	I _F =20mA		±55		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.

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