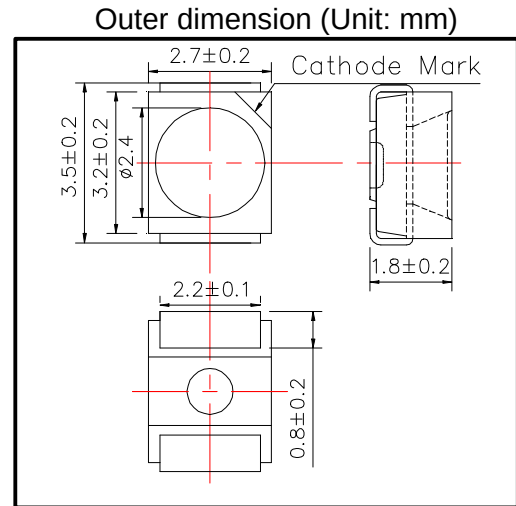


SMT640-CE200 point source LED

SMT640-CE200 consists of red color point source LED mounted on the lead frame as TOP LED package and is 150mcd typical of Brightness. It emits a spectral band of radiation at 640nm.

Specifications

- | | |
|---------------------|------------------|
| 1) Product Name | Point Source LED |
| 2) Type No. | SMT640-CE200 |
| 3) Chip | |
| (1) Chip Material | AlGaInP |
| (2) Peak Wavelength | 640nm typ. |
| (3) Emission Area | φ200um |
| 4) Package | |
| (1) Lead Frame Die | Silver Plated |
| (2) Package Resin | PPA Resin |
| (3) Lens | Epoxy Resin |



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	100	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}	-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 230°C

Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		1.90	2.20	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	80	150		mcd
Radiant Intensity	I _E	I _F =50mA		1		mW/sr
Peak Wavelength	I _P	I _F =20mA	630	640	650	nm
Half Width	D I	I _F =20mA		13		nm
Viewing Half Angle	Q _{1/2}	I _F =20mA		±30		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.