



Lead (Pb) Free Product – RoHS Compliant

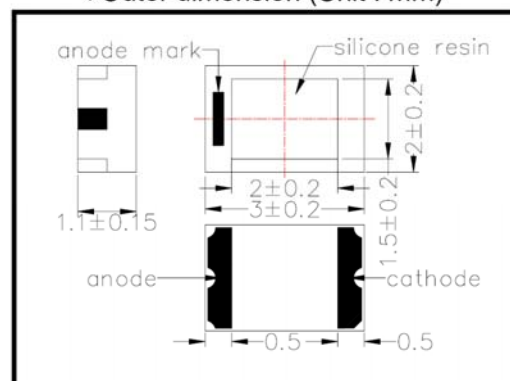
SMC630 High Bright Red color SMD LED on ceramics

SMC630 consists of an AlInGaP/GaP LED mounted on the ceramics package and is sealed with silicone or epoxy resin. It emits a spectral band of radiation at 630nm.

◆ Specifications

- 1) Product Name SMD type red color LED
- 2) Type No. SMC630
- 3) Chip
 - (1) Chip Material AlInGaP/GaP
 - (2) Peak Wavelength 630nm typ.
- 4) Package
 - (1) Package Ceramics
 - (2) Lens Silicone or Epoxy resin

◆ Outer dimension (Unit : mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	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 240°C

◆ Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		2.05	2.30	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		5.0		mW
Brightness	I _V	I _F =20mA		420		mcd
Peak Wavelength	λ _P	I _F =20mA	620	630	640	nm
Half Width	Δλ	I _F =20mA		15		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±55		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.