

Lead (Pb) Free Product RoHS compliant

# SMC660

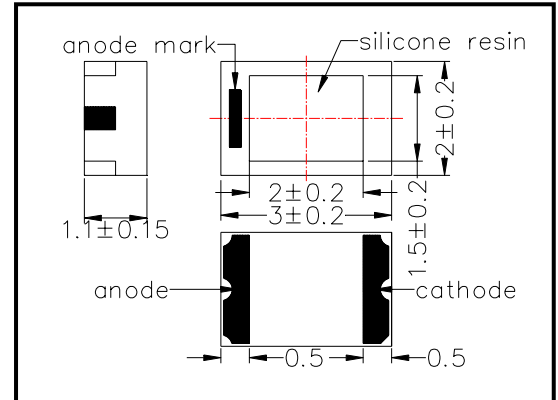
High Bright Red color SMD LED on ceramics

SMC660 consists of an AlGaAs LED mounted on the ceramics package and is sealed with silicone or epoxy resin. It emits a spectral band of radiation at 660nm.

◆ Specifications

- 1) Product Name      SMD type red color LED
- 2) Type No.            SMC660
- 3) Chip
- (1) Chip Material     AlGaAs
- (2) Peak Wavelength  660nm 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 <sub>D</sub>	120	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	50	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	5	V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-20 ~ +80	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +80	°C	
Soldering Temperature	T <sub>SOL</sub>	240	°C	

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

◆ Electro-Optical Characteristics [T<sub>a</sub>=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA		1.90	2.30	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V			10	uA
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA		2.5		mW
Brightness	I <sub>v</sub>	I <sub>F</sub> =20mA	40	80		mcd
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	650	660	670	nm
Half Width	Δλ	I <sub>F</sub> =20mA		20		nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =20mA		±55		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.

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