

# SMC430

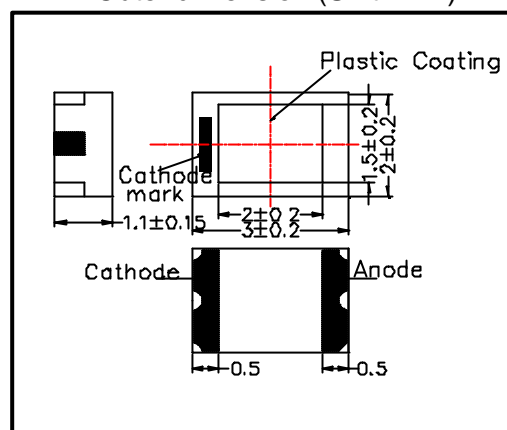
High Bright Blue color SMD LED on ceramics

SMC430 consists of an GaN LED mounted on the ceramics package and is sealed with silicone resin. It emits a spectral band of radiation at 430nm.

## Specifications

- |                     |                         |
|---------------------|-------------------------|
| 1) Product Name     | SMD type Blue color LED |
| 2) Type No.         | SMC430                  |
| 3) Chip             |                         |
| (1) Chip Material   | GaN                     |
| (2) Peak Wavelength | 430nm typ.              |
| 4) Package          |                         |
| (1) Package         | Ceramics                |
| (2) Lens            | Silicone resin          |

Outer dimension (Unit: mm)



## Absolute Maximum Rating

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P <sub>D</sub>	125	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	30	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 ~ +85	°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +100	°C	
Soldering Temperature	T <sub>SOL</sub>	220	°C	

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

‡Soldering condition: Soldering condition must be completed within 3 seconds at 220°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		3.8	4.8	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		0.25		mW
Brightness	I <sub>V</sub>	I <sub>F</sub> =20mA		10		mcd
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> =20mA		0.1		mW/sr
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA	420	430	440	nm
Half Width	Δλ	I <sub>F</sub> =20mA		50		nm
Viewing Half Angle	Θ <sub>1/2</sub>	I <sub>F</sub> =20mA		±55		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512.

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