

SMC430 High Bright Blue color SMD LED on ceramics

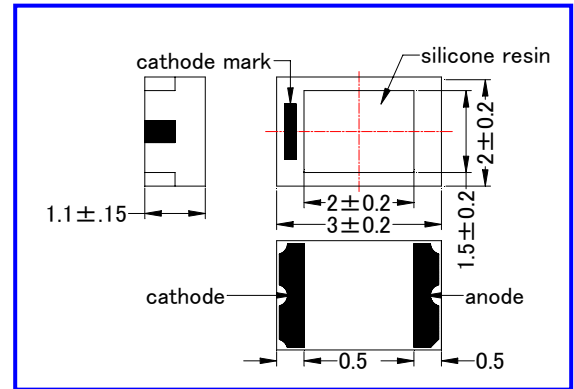
SMC430 consists of a GaN LED mounted on the ceramics package and is sealed with silicone or epoxy resin.

It emits a spectral band of radiation at 430nm.

◆Outer dimension (Unit : mm)

◆Specifications

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|---------------------|-------------------------|
| 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 or Epoxy resin |



◆Absolute Maximum Rating

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	125	mW	T _a =25°C
Forward Current	I _F	30	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 : Solder 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		3.8	4.8	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		0.25		mW
Brightness	I _v	I _F =20mA		10		mcd
Radiant Intensity	I _E	I _F =20mA		0.10		mW/sr
Peak Wavelength	λ _P	I _F =20mA	420	430	440	nm
Half Width	Δλ	I _F =20mA		50		nm
Viewing Half Angle	Δθ	I _F =20mA		±55		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512.

‡Brightness is measured by Tektronix J-16.