

SMC430

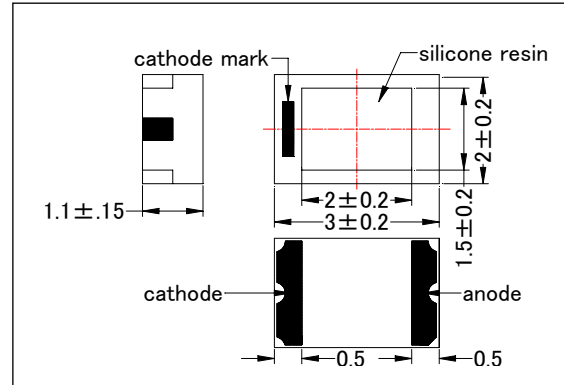
High Bright Blue Color SMD LED on Ceramics

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.

<Specifications>

1. Product Name: SMD type Blue Color LED
2. Type Number: SMC430
3. Chip:
 - Chip Material: GaN
 - Peak Wavelength: 430nm type
4. Package
 - Package: Ceramics
 - Lens: Silicone or Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	125	mW	Ta=25°C
Forward Current	IF	30	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-20 ~ +80	°C	
Storage Temperature	TSTG	-30 ~ +80	°C	
Soldering Temperature*	TSOL	240	°C	

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

Electro-Optical Characteristics[Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.8	4.8	V
Reverse Current	IR	VR=5V			10	uA
Radiated Power*	PO	IF=20mA		0.25		mW
Brightness**	IV	IF=20mA		10		mcd
Radiant Intensity***	IE	IF=20mA		0.10		mW/sr
Peak Wavelength	λP	IF=20mA	420	430	440	nm
Half Width	Δλ	IF=20mA		50		nm
Viewing Half Angle	θ1/2	IF=20mA		±55		deg

* Measured by Photodyne #500
 ** Measured by Tektronix J-16
 *** Measured by Tektronix J-6512

