

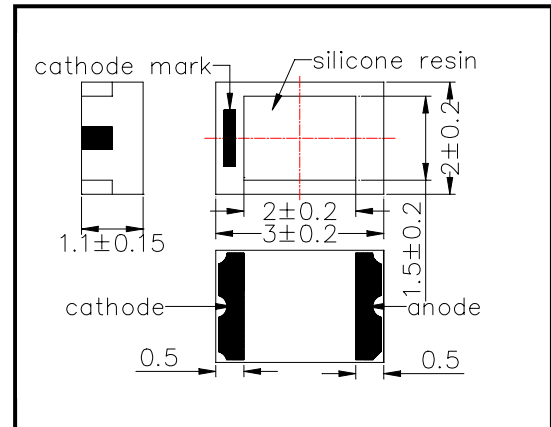
SMC405 UV color SMD LED on ceramics

SMC405 consists of an InGaN LED mounted on the ceramics package and is sealed with silicone resin. It emits a spectral band of radiation at 405nm.

◆ Specifications

1) Product Name	SMD type UV color LED
2) Type No.	SMC405
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	405nm typ.
4) Package	
(1) Lead Frame Die	Ceramics
(2) Lens	Silicone 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	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: Soldering condition must be completed within 3 seconds at 230°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		4		mW
Brightness	I _V	I _F =20mA		-		mcd
Peak Wavelength	λ _P	I _F =20mA	395	405	415	nm
Half Width	Δλ	I _F =20mA		15		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±55		deg.

‡Brightness is measured by Tektronix J-16.

‡Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2741