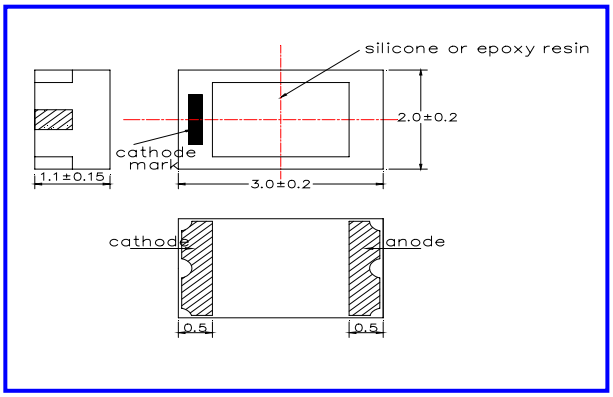
Lead (Pb) Free Product RoHS compliant

SMC525

High Bright Green color SMD LED on ceramics

SMC525 consists of an InGaN LED mounted on the ceramics package and is sealed with silicone or epoxy resin.
It emits a spectral band of radiation at 525nm.

◆Outer dimension (Unit：mm)



◆Specifications

1) Product Name	SMD type blue color LED
2) Type No.	SMC525
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	525nm 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	120	mW	Ta=25°C
Forward Current	I_F	30	mA	Ta=25°C
Reverse Voltage	V_R	5	V	Ta=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 [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F=20mA		3.5	4.3	V
Reverse Current	I_R	V_R=5V			10	uA
Total Radiated Power	P_O	I_F=20mA		1.0		mW
Brightness	I_V	I_F=20mA		150		mcd
Radiant Intensity	I_E	I_F=20mA		0.3		mW/sr
Peak Wavelength	λ_P	I_F=20mA	515	525	535	nm
Half Width	$\Delta\lambda$	I_F=20mA		40		nm
Viewing Half Angle	$\Delta\Theta$	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.

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