

## SMC720

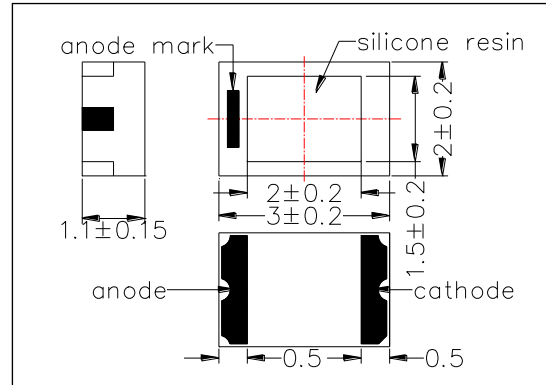
### High Performance Infrared SMD LED on Ceramics

SMC720 consists of an AlGaAs LED mounted on the ceramics package and is sealed with silicone or epoxy resin. It emits a spectral band of radiation at 720nm.

<Specifications>

1. Product Name: SMD type Infrared LED
2. Type Number: SMC720
3. Chip:
  - Chip Material: AlGaAs
  - Peak Wavelength: 720nm 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	110	mW	Ta=25°C
Forward Current	IF	50	mA	Ta=25°C
Pulse Forward Current*	IFP	200	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	

\* Duty=1% and Pulse Width=10us

\*\* 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=50mA		1.90	2.30	V
Reverse Current	IR	VR=5V			10	uA
Radiated Power*	PO	IF=50mA	1.5	3.0		mW
Radiant Intensity**	IE	IF=50mA	1.0	2.0		mW/sr
Peak Wavelength	λP	IF=50mA		720		nm
Half Width	Δλ	IF=50mA		20		nm
Viewing Half Angle	θ1/2	IF=50mA		±55		deg
Rise Time	tr	IF=50mA		80		ns
Fall Time	tf	IF=50mA		80		ns

\* Measured by Photodyne #500

\*\* Measured by Tektronix J-6512

