

SMC735

High Performance infrared SMD LED on ceramics

SMC735 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 735nm.

Specifications

1) Product Name SMD type red color LED

2) Type No. SMC735

3) Chip

(1) Chip Material AlGaAs(2) Peak Wavelength 735nm typ.

4) Package

(1) Package Ceramics

(2) Lens Silicone or Epoxy resin

Absolute Maximum Ratings

Outer dimension (Unit : mm)								
anode mark—silicone resin 2 ± 0.2 3 ± 0.2 0 1.1 ± 0.15 anode 2 ± 0.2 0 1.1 ± 0.15 anode -0.5								

<u>Item</u>	Symbol	Maximum Rated Value Unit		Ambient Temperature	
Power Dissipation	Pp	200	mW	Ta=25°C	
Forward Current	I F	100	mΑ	Ta=25°C	
Pulse Forward Current	IFP	500	mΑ	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		

[‡]Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

Electro-Optical Characteristics [Ta=25°C]

ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	I _F =50mA		1.85	2.00	V
Reverse Current	IR	Vr=5V			10	uA
Total Radiated Power	Po	I=50mA	4.0	10.0		mW
Radiant Intensity	ΙE	I=50mA	2.0	5.0		mW/sr
Peak Wavelength	I P	I _F =50mA		735		nm
Half Width	DI	I=50mA		30		nm
Viewing Half Angle	Q1/2	I _F =50mA		±55		deg.
Rise Time	tr	I=50mA		80		ns
Fall Time	tf	I=50mA		80		ns

[‡]Total Radiated Power is measured by Photodyne #500

RLT

Tel.: e-mail:

[‡]Soldering condition: Soldering condition must be completed within 3 seconds at 240°C

[‡]Radiant Intensity is measured by Tektronix J-6512.