

Lead (Pb) Free Product RoHS compliant

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 infrared LED

SMC735 2) Type No.

3) Chip

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

4) Package

(1) Package Ceramics

(2) Lens Silicone or Epoxy resin

♦ Absolute Maximum Ratings

◆Outer dimension (Unit : mm)					
	silicone resin				

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature	
Power Dissipation	Pb	200	mW	Ta=25°C	
Forward Current	lf	100	mΑ	Ta=25°C	
Pulse Forward Current	I FP	500	mΑ	Ta=25°C	
Reverse Voltage	Vr	5	V	Ta=25°C	
Operating Temperature	Topr	-20 ~ +80	°C		
Storage Temperature	Тѕтс	-30 ~ +80	°C		
Soldering Temperature	Tsol	240	°C		

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

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

◆ Electro-Optical Characteristics [Ta=25°C]

ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.85	2.00	V
Reverse Current	lr	Vr=5V			10	uA
Total Radiated Power	Po	Ir=50mA	4.0	10.0		mW
Radiant Intensity	lε	I=50mA	2.0	5.0		mW/sr
Peak Wavelength	λР	I=50mA		735		nm
Half Width	Δλ	I=50mA		30		nm
Viewing Half Angle	θ 1/2	I=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

‡Radiant Intensity is measured by Tektronix J-6512.

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