

Lead (Pb) Free Product - RoHS Compliant

SMCC375-1100-02 High Power type Top LED

SMCC375-1100-02 is an AlGaN LED mounted on ceramic package with copper heat sink and is covered with silicone resin lense. On forward bias, it emits a band of 375nm. It is 35mW/sr typical of Radiant Intensity and ±10° of viewing half angle.

◆Specifications

Product Name Ceramics SMD UV LED
 Type No. SMCC375-1100-02

3) Chip

(1) Chip Material AlGaN

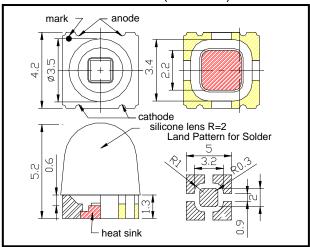
(2) Chip Dimension 1000um*1000um

(3) Peak Wavelength 375nm typ.

4) Package

(1) Type Ceramic with Heatsink(2) Lens Silicone Resin R=2mm

◆Outer dimension (Unit: mm)



♦ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value Unit		Ambient Temperature	
Power Dissipation	Pp	1250	mW	Ta=25°C	
Forward Current	lF	350	mA	Ta=25°C	
Pulse Forward Current	lfp	700	mA	Ta=25°C	
Reverse Voltage	Vr	10	V	Ta=25°C	
Operating Temperature	Topr	-30 ~ +85	°C		
Storage Temperature	Tstg	-30 ~ +100	°C		
Soldering Temperature	Tsol	265	°C		
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‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

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

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	Ir=200mA		4.0	4.5	V
Pulsed Forward Voltage	VF	IFP=0.5A		4.7	5.5	V
Reverse Current	lr	Vr=5V			10	uA
Total Radiated Power	Po	Ir=200mA		40		mW
Radiant Intensity	le	Ir=200mA		40		mW/sr
Peak Wavelength	λР	I=50mA		375		nm
Half Width	Δλ	I=50mA		14		nm
Viewing Half Angle	θ 1/2	I=50mA		±10		deg.
Rise Time	tr	I=50mA		200		ns
Fall Time	tf	I=50mA		150		ns

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