

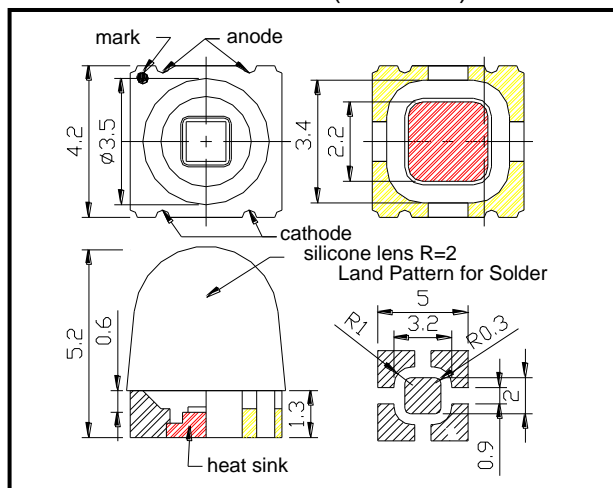
SMCC365-1100-02 High Power type Top LED

SMCC365-1100-02 is an AlGaIn LED mounted on ceramic package with copper heat sink and is covered with silicone resin lens. On forward bias, it emits a band of 365nm. It is 35mW/sr typical of Radiant Intensity and $\pm 10^\circ$ of viewing half angle.

◆ Specifications

- 1) Product Name Ceramics SMD UV LED
- 2) Type No. SMCC365-1100-02
- 3) Chip
- (1) Chip Material AlGaIn
- (2) Chip Dimension 1000um*1000um
- (3) Peak Wavelength 365nm typ.
- 4) Package
- (1) Type Ceramic with Heat sink
- (2) Lens Silicone Resin R=2mm

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	1300	mW	$T_a=25^\circ\text{C}$
Forward Current	I_F	350	mA	$T_a=25^\circ\text{C}$
Pulse Forward Current	I_{FP}	700	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	V_R	10	V	$T_a=25^\circ\text{C}$
Operating Temperature	T_{OPR}	-30 ~ +85	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	T_{SOL}	265	$^\circ\text{C}$	

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

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265 $^\circ\text{C}$

◆ Electro-Optical Characteristics [$T_a=25^\circ\text{C}$]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	$I_F=200\text{mA}$		4.0	4.5	V
Pulsed Forward Voltage	V_F	$I_{FP}=0.5\text{A}$		4.7	5.5	V
Reverse Current	I_R	$V_R=5\text{V}$			10	μA
Radiated Power	P_o	$I_F=200\text{mA}$		20		mW
Radiant Intensity	I_e	$I_F=200\text{mA}$		35		mW/sr
Peak Wavelength	λ_P	$I_F=50\text{mA}$	360	365	370	nm
Half Width	$\Delta\lambda$	$I_F=50\text{mA}$		16		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=50\text{mA}$		± 10		deg.

‡Radiated Power is measured by S3584-08.

‡Radiated intensity is measured by Ando Optical Multi Meter AQ2140 & AQ2741

SMD LED STORAGE AND HANDLING PRECAUTIONS

< Storage Conditions before Opening a Moisture-Barrier Aluminum Bag >

- Before opening a moisture-barrier aluminum bag, please store it at <30°C, <60%RH. Please note that the maximum shelf life is 12 months under these conditions.

< Storage Conditions after Opening a Moisture-Barrier Aluminum Bag >

- After opening a moisture-barrier aluminum bag, store the aluminum bag and silica gel in a desiccator.
- After opening the bag, please solder the LEDs within 48 hours in a room with 5 - 30°C, <50%RH.
- Please put any unused, remaining LEDs and silica gel back in the same aluminum bag and then vacuum-seal the bag.
- It is recommended to keep the re-sealed bag in a desiccator at <30%RH.

< Notes about Re-sealing a Moisture-Barrier Aluminum Bag >

- When vacuum-sealing an opened aluminum bag, if you find the moisture-indicator of the silica gel has changed to pink from blue (indicating a relative humidity of 30 % or more), please do not use the unused LEDs, the aluminum bag, or the silica gel.

< Notes about Opening a Re-sealed Moisture-Barrier Aluminum Bag >

- When opening a vacuumed and re-sealed aluminum bag in order to use the remaining LEDs stored in the bag, if you find that the moisture-indicator of the silica has changed to pink, please do not use the LEDs.

※The 48-hour- long floor life does not include the time while LEDs are stored in the moisture-barrier aluminum bag.

However, we strongly recommend to solder the LEDs as soon as possible after opening the aluminum bag.

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