

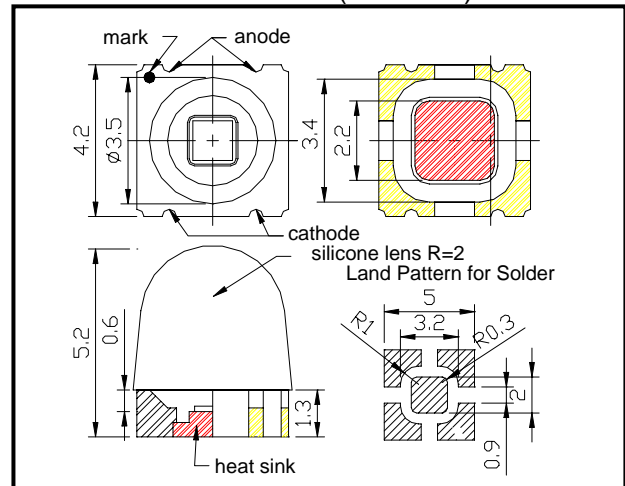
SMCC395-1100-02 High Power type Top LED

SMCC395-1100-02 is an InGaN LED mounted on ceramic package with copper heat sink and is covered with silicone resin lense. On forward bias, it emits a band of 395nm. It is 100mW/sr typical of Radiant Intensity and $\pm 10^\circ$ of viewing half angle.

◆ Specifications

- | | |
|---------------------|-----------------------|
| 1) Product Name | Ceramics SMD UV LED |
| 2) Type No. | SMCC395-1100-02 |
| 3) Chip | |
| (1) Chip Material | InGaAs |
| (2) Chip Dimension | 1000um*1000um |
| (3) Peak Wavelength | 395nm 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	P_D	1250	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°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
Total Radiated Power	P_o	$I_F=200\text{mA}$		100		mW
Radiant Intensity	I_e	$I_F=200\text{mA}$		100		mW/sr
Peak Wavelength	λ_P	$I_F=50\text{mA}$		395		nm
Half Width	$\Delta\lambda$	$I_F=50\text{mA}$		14		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=50\text{mA}$		± 10		deg.
Rise Time	t_r	$I_F=50\text{mA}$		200		ns
Fall Time	t_f	$I_F=50\text{mA}$		150		ns