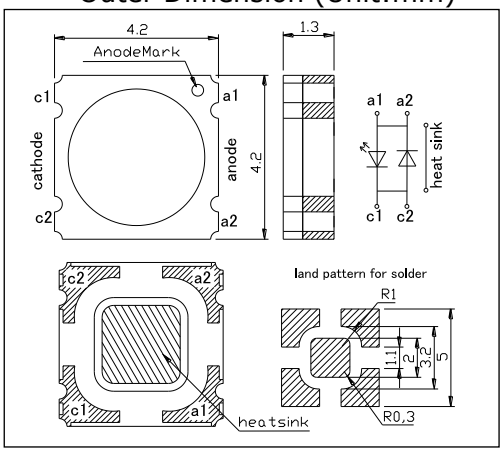
SMCC395-1100

Ceramics SMD type LED with Heat Sink

<Specifications>

1. Product Name: Ceramics SMD UV LED
2. Type Number: SMCC395-1100
3. Chip:
   - Chip material: InGaN
   - Chip Dimension: 1000umx1000um
   - Chip Number: 1pcs
   - Peak Wavelength: 395nm typ.
4. Package
   - Type: Ceramic with Heat Sink
   - Resin Material: Silicone Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25℃]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	1500	mW
Forward Current	IF	350	mA
Pulse Forward Current*	IFP	500	mA
Reverse Voltage	VR	not designed for reverse operation	V
Thermal Resistance	Rthja	10	K/W
Junction Temperature	Tj	100	℃
Operating Temperature	TOPR	-30 ~ +85	℃
Storage Temperature	TSTG	-30 ~ +100	℃
Soldering Temperature**	TSOL	250	℃

* Duty=1% and Pulse Width=10μs.

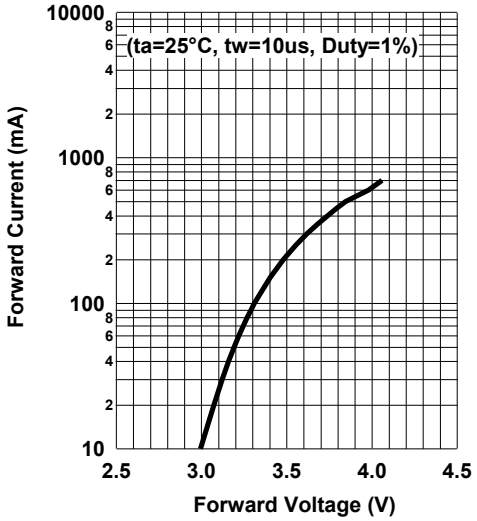
** Soldering condition must be completed within 5 second at 250 ℃.

Electro-Optical Characteristics [Ta=25℃]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=350mA		3.7	4.5	V
Pulsed Forward Voltage	VFP	IF=500mA		3.9	5.3	V
Radiated Power*	PO	IF=350mA		300		mW
Peak Wavelength	λP	IF=350mA		395		nm
Half Width	Δλ	IF=350mA		14		nm
Viewing Half Angle	θ1/2	IF=350mA		±63		deg

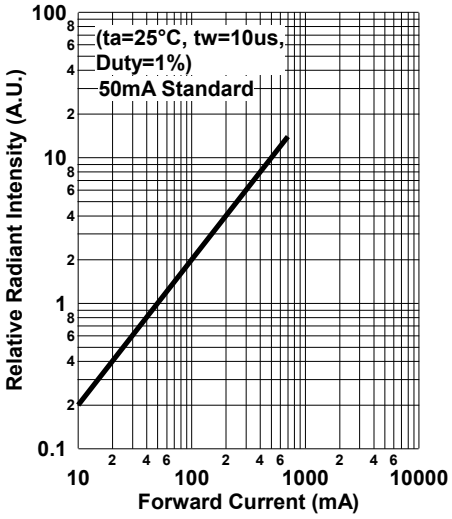
* Measured by S3584-08

RoHS Compliant

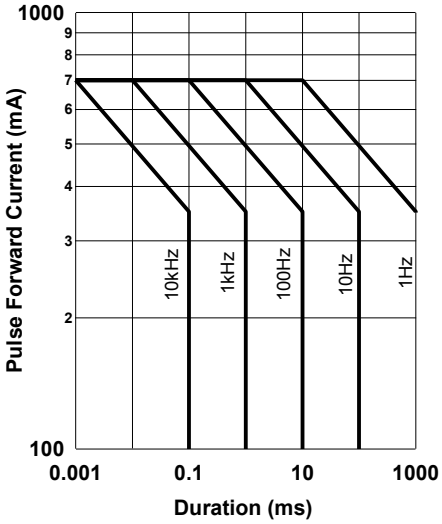
Forward Curent - Forward Voltage



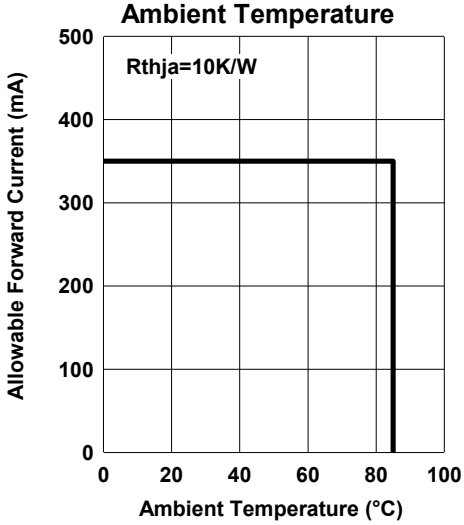
Relative Radiant Intensity - Forwrad Current



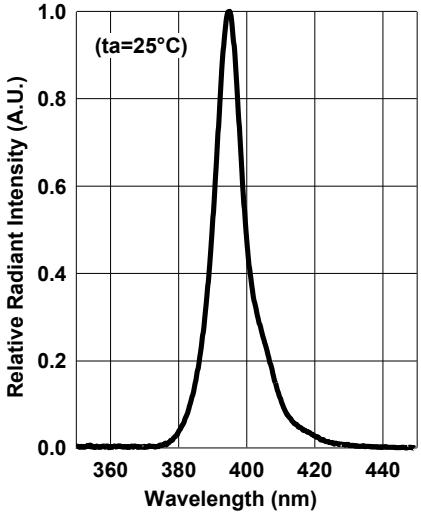
Forward Currrent-Pulse Duration



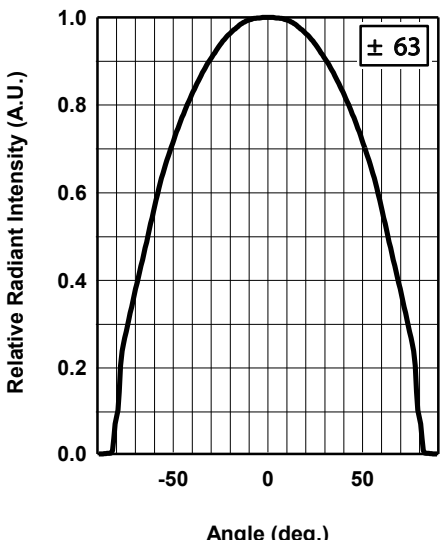
Allowable Forward Current - Ambient Temperature

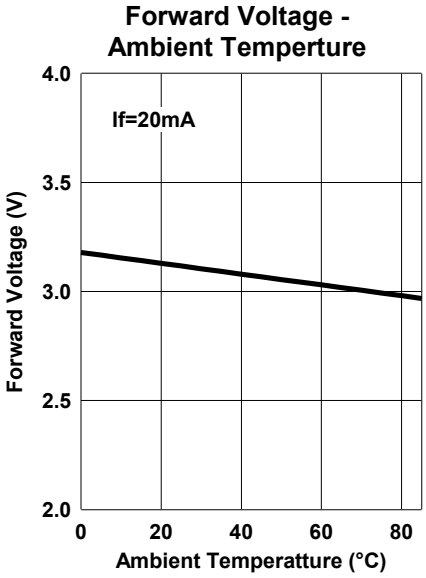


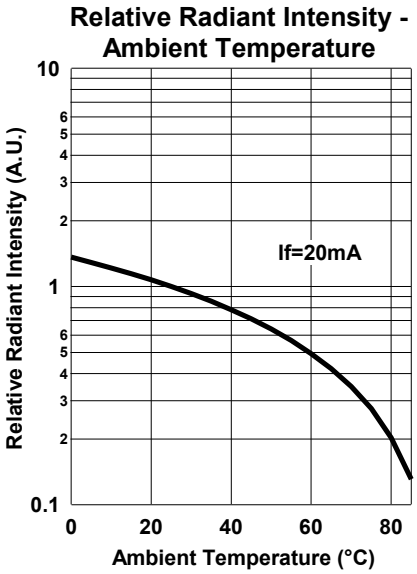
Relative Spectral Emission

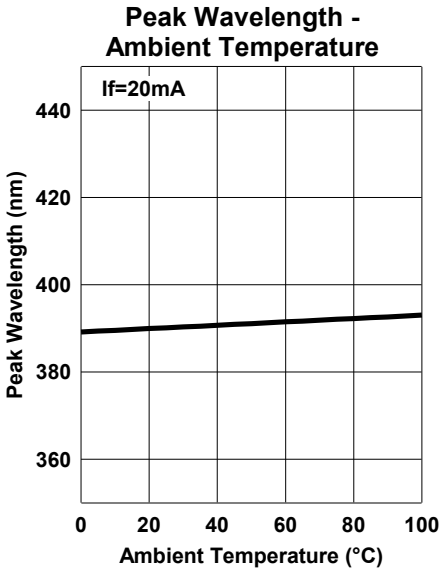


Radiation Pattern









Wrapping

Moisture barrier bag aluminum laminated film with a desiccant to keep out the moisture absorption during the transportation and storage.

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 <30ºC, <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 72 hours in a room with 5 - 30ºC, <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 72-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.

2013.12