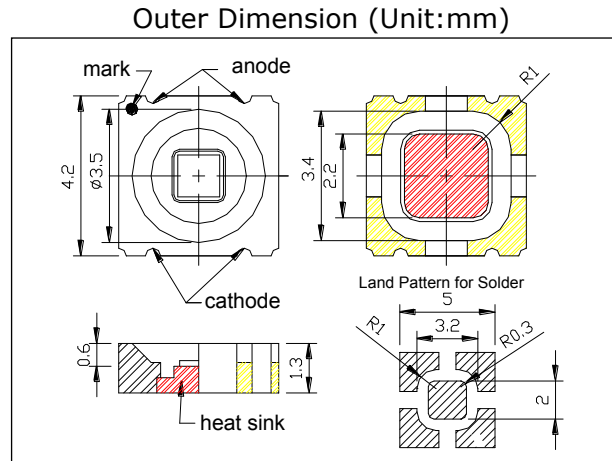


SMCC365-1100
Ceramics SMD type LED with Heat Sink

<Specifications>

1. Product Name: Ceramics SMD UV LED
2. Type Number: SMCC365-1100
3. Chip:
 - Chip material: AlGaN
 - Chip Dimension: 1000umx1000um
 - Peak Wavelength: 365nm typ.
4. Package
 - Type: Ceramic with Heat Sink
 - Resin Material: Silicone Resin



| Absolute Maximum Ratings[Ta=25°C] | | | |
|-----------------------------------|--------|---------------------|------|
| Item | Symbol | Maximum Rated Value | Unit |
| Power Dissipation | PD | 2500 | mW |
| Forward Current | IF | 500 | mA |
| Pulse Forward Current* | IFP | 700 | mA |
| Reverse Voltage | VR | 10 | V |
| Thermal Resistance** | Rthja | 6 | K/W |
| Junction Temperature | Tj | 140 | °C |
| Operating Temperature | TOPR | -30 ~ +130 | °C |
| Storage Temperature | TSTG | -30 ~ +150 | °C |
| Soldering Temperature*** | TSOL | 265 | °C |

* Duty=1% and Pulse Width=10μs.

** Junction - mounted on metal block

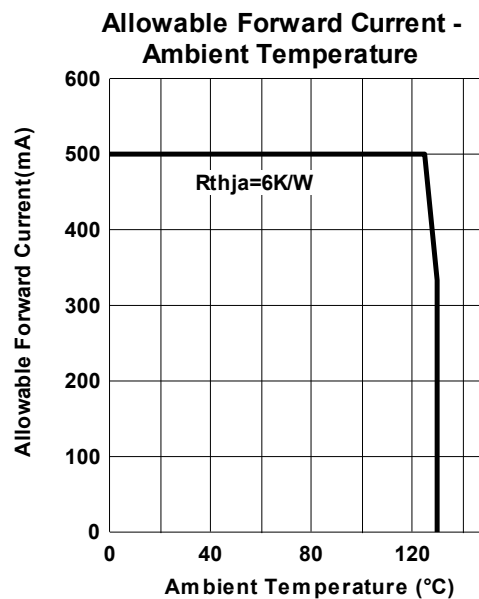
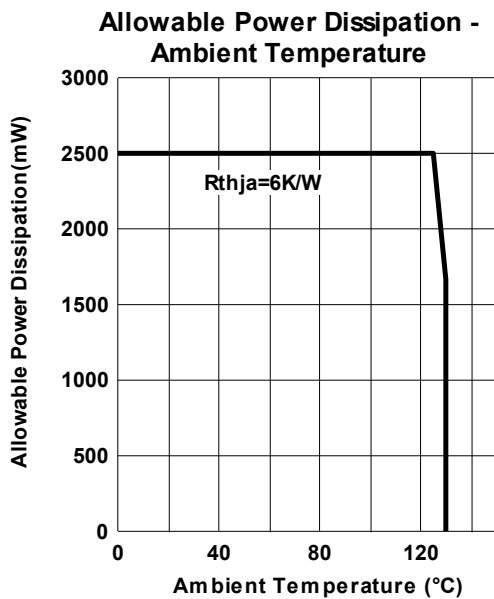
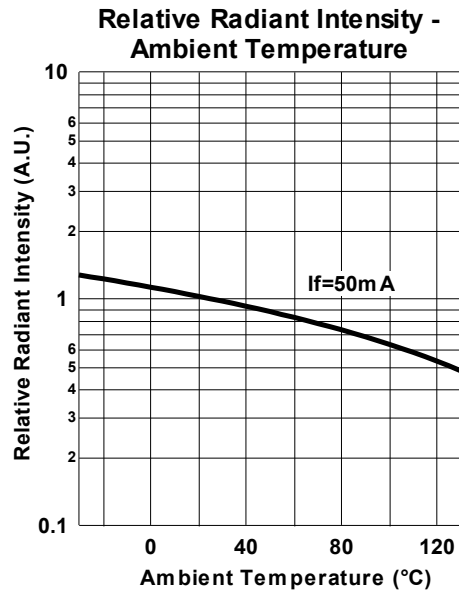
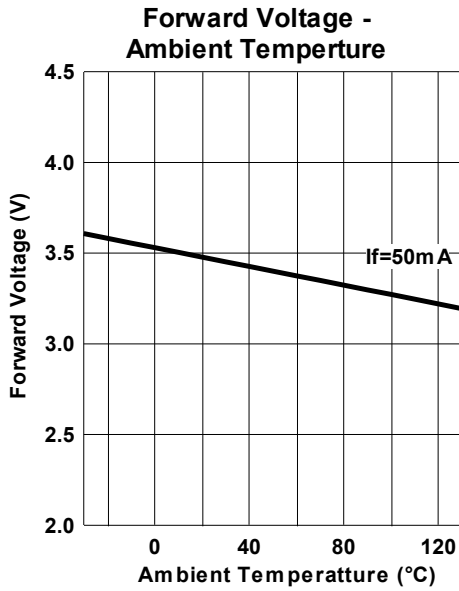
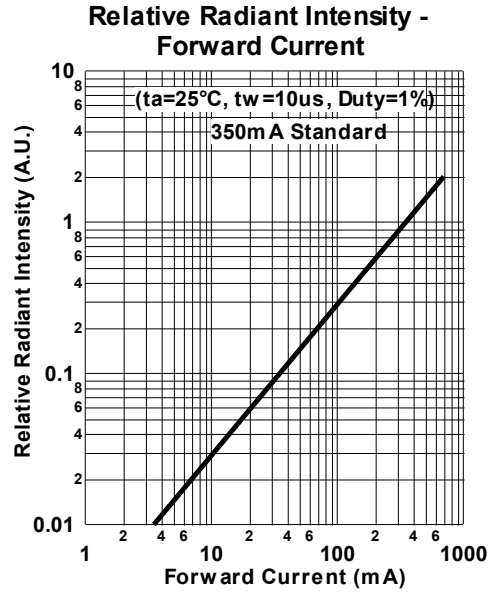
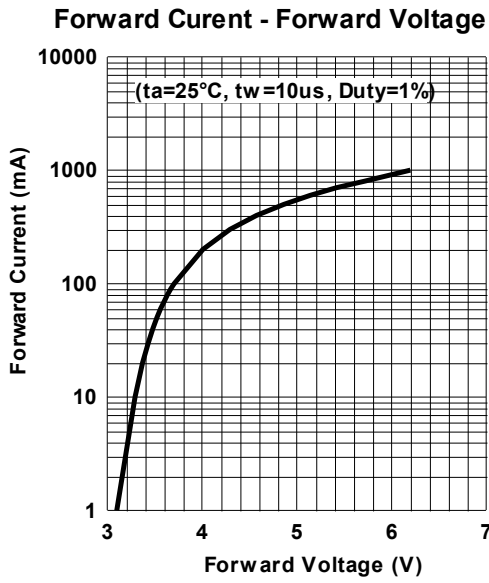
*** Soldering condition must be completed within 3 second at 265 °C.

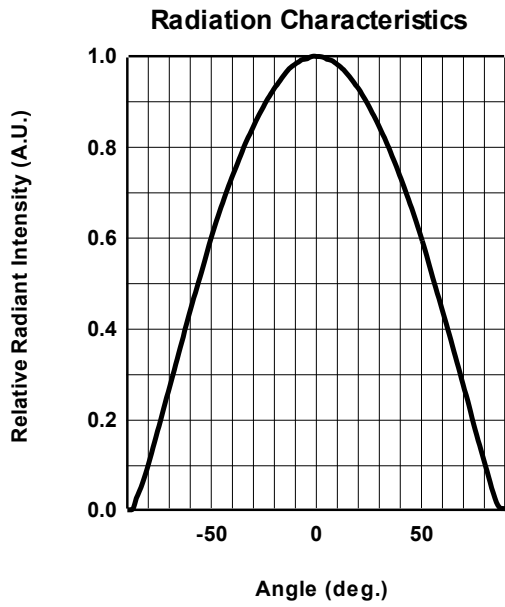
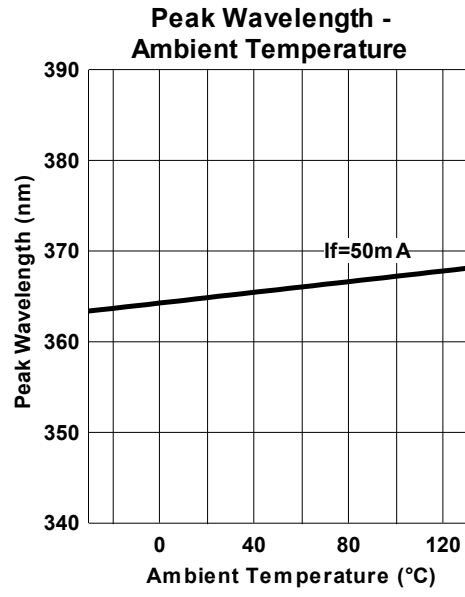
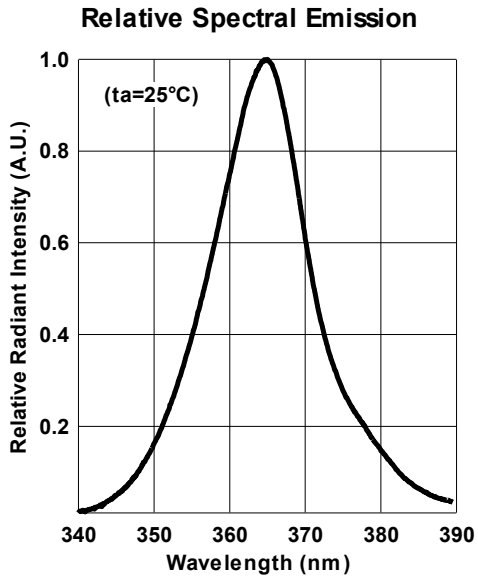
| Electro-Optical Characteristics [Ta=25°C] | | | | | | |
|--|--------|-----------|---------|---------|---------|-------|
| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
| Forward Voltage | VF | IF=350mA | | 4.2 | 5.0 | V |
| Pulsed Forward Voltage | VFP | IF=700mA | | 5.4 | 6.0 | V |
| Radiated Power* | PO | IF=350mA | | 50 | | mW |
| Radiant Intensity** | IE | IF=350mA | | 7 | | mW/sr |
| Peak Wavelength | λP | IF=50mA | 360 | 365 | 370 | nm |
| Half Width | Δλ | IF=50mA | | 16 | | nm |
| Viewing Half Angle | θ1/2 | IF=50mA | | ±60 | | deg |
| Rise Time | tr | IF=50mA | | 200 | | ns |
| Fall Time | tf | IF=50mA | | 150 | | ns |

* Measured by S3584-08

** Measured by Ando Optical Multi Meter AQ2104 & 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.