

Model LC00 series

Bare Die (Flip chip form, Au Pad)

Typical Optical-Electrical Characteristics

IF=350mA Ta=25C

| Item | Symbol | Unit | 275nm | | | 280nm | | | 308nm | | | 325nm | | | 340nm | | |
|----------------------------|-----------------|------|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|
| | | | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max |
| Peak Wavelength(*) | λ_p | nm | 270 | 275 | 280 | 275 | 280 | 285 | 303 | 308 | 313 | 320 | 325 | 330 | 335 | 340 | 345 |
| Radiant Flux(**) | P_o | mW | 30 | 47 | 60 | 30 | 47 | 60 | 35 | 50 | 70 | 30 | 45 | 60 | 30 | 45 | 60 |
| Full Width at Half Maximum | $\Delta\lambda$ | nm | - | 11 | 15 | - | 11 | 15 | - | 14 | 20 | - | 12 | 15 | - | 10 | 15 |
| Forward Voltage | V_F | V | - | 5.5 | - | - | 5.5 | - | - | 5.5 | - | - | 5.2 | - | - | 5.0 | - |

IF=600mA Ta=25C

| Item | Symbol | Unit | 275nm | | | 280nm | | | 308nm | | | 325nm | | | 340nm | | |
|----------------------------|-----------------|------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| | | | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max |
| Peak Wavelength(*) | λ_p | nm | - | (275) | - | - | (280) | - | - | (308) | - | - | (325) | - | - | (340) | - |
| Radiant Flux(**) | P_o | mW | - | 75 | - | - | 75 | - | - | 75 | - | - | 70 | - | - | 75 | - |
| Full Width at Half Maximum | $\Delta\lambda$ | nm | - | (12) | - | - | (12) | - | - | (15) | - | - | (12) | - | - | (10) | - |
| Forward Voltage | V_F | V | - | 6.0 | - | - | 6.0 | - | - | 6.0 | - | - | 5.5 | - | - | 5.2 | - |

(*)Peak Wavelength Measurement tolerance is ± 3 nm.

(**)Radiant Flux Measurement tolerance is $\pm 10\%$.

Binning is available.

Specification and dimension are subject to change for improvement without notice.

Product ID, Physical dimensions

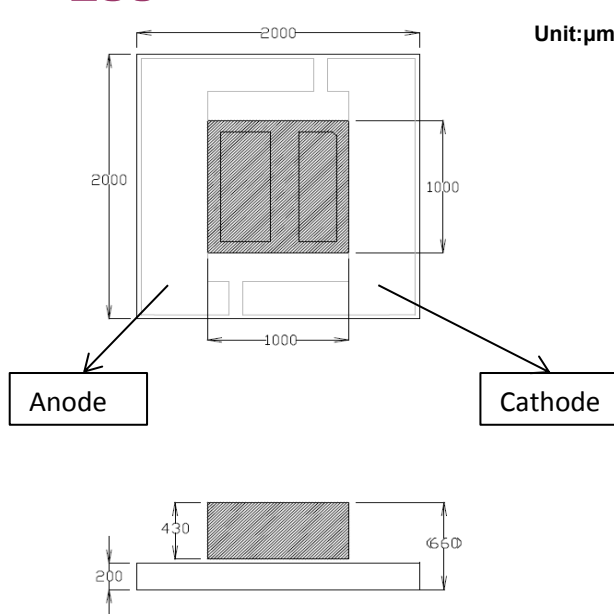
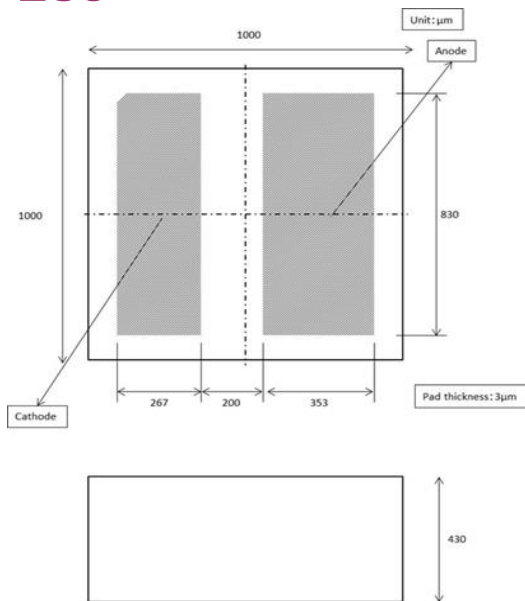
LC0

Bare Die

LS8

With AlN Submount

Unit: μm



WARNING

- LEDs emit very strong UV radiation.
- Do not look at the LED light with the naked eye or irradiate the skin. UV radiation can harm your eyes and skin.
- To prevent UV radiation exposure, wear protective eyewear and protective equipment.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.

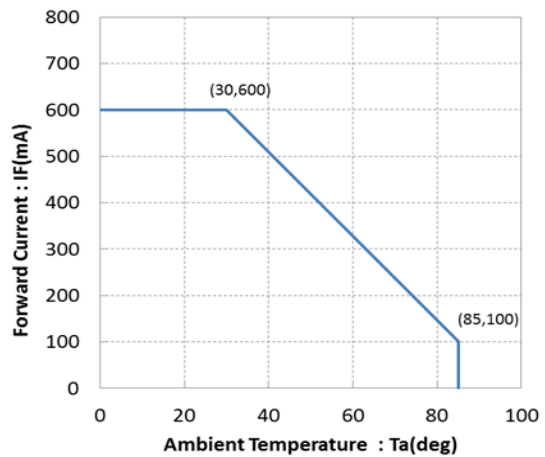
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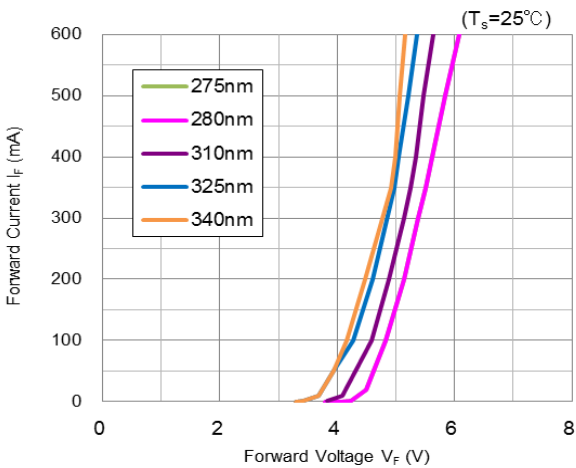
Absolute Maximum Ratings

| Item | Symbol | Unit | Value |
|-----------------------|-----------|--------------------|-----------------------------|
| Forward Current | I_F | mA | 600 |
| Junction Temperature | T_J | $^{\circ}\text{C}$ | 100 |
| Operating Temperature | T_{OPR} | $^{\circ}\text{C}$ | -30 ~ +85 |
| Storage Temperature | T_{STR} | $^{\circ}\text{C}$ | -40 ~ +85 (No condensation) |

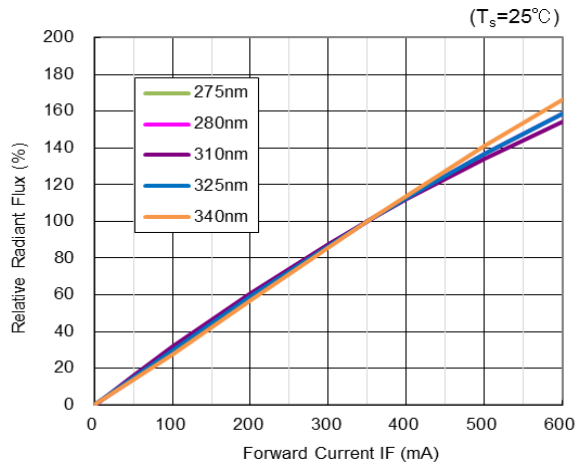
Derating Curve



Forward Voltage vs Forward Current



Forward Current vs Radiant Flux



Spectrum

