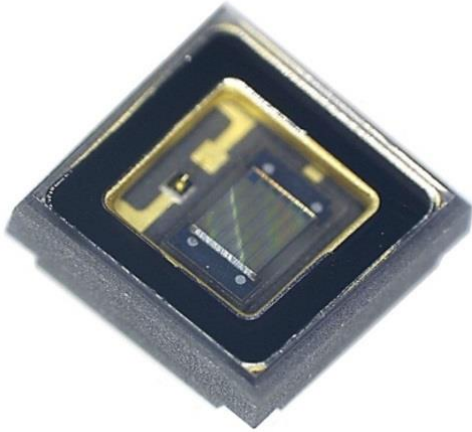


Deep-UV LED Device

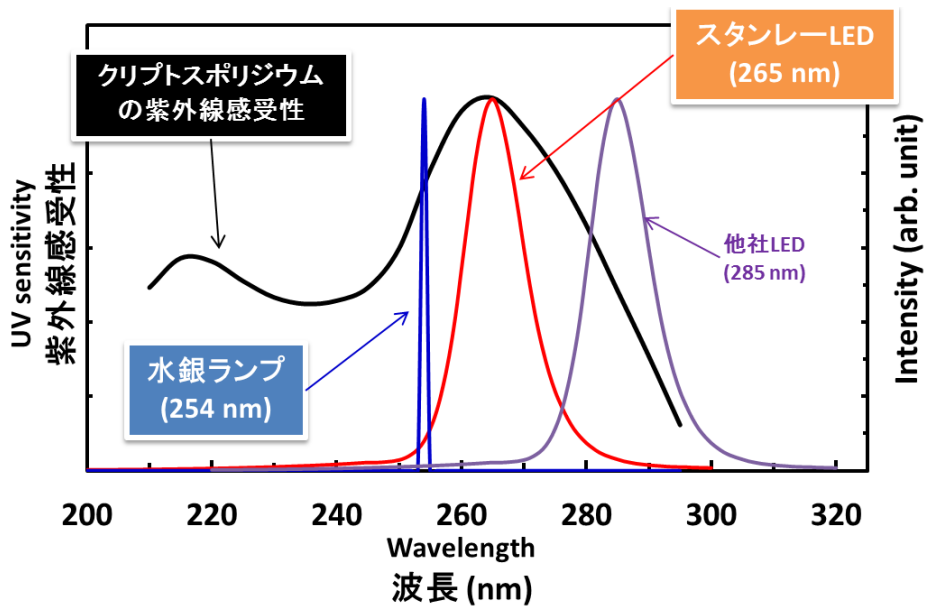
Model # : YL-3535F(130)-265nm(30mW)



■ Features

- 265nm wavelength which is the most effective for disinfection.
- World highest output power 50mW by using AlN substrate

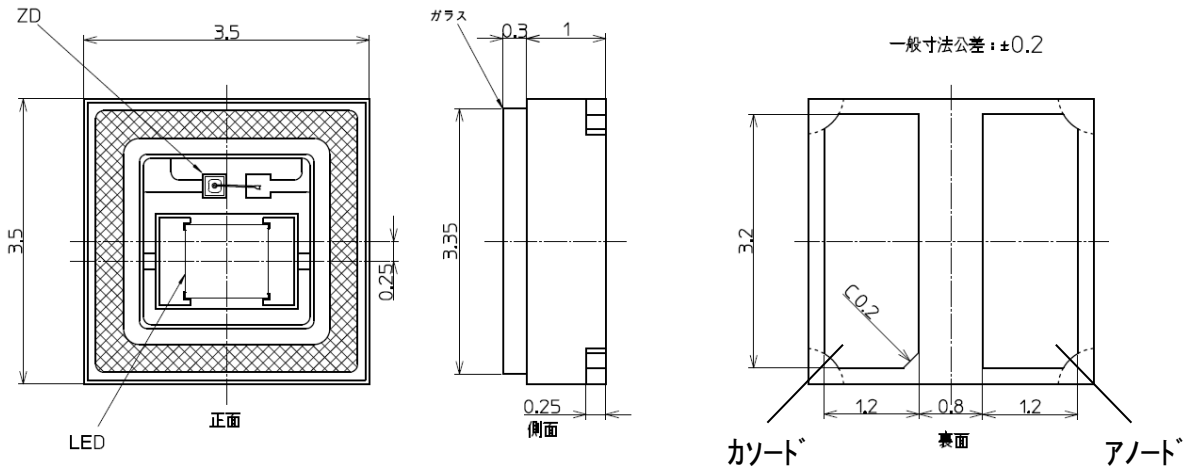
■ Spectral distribution



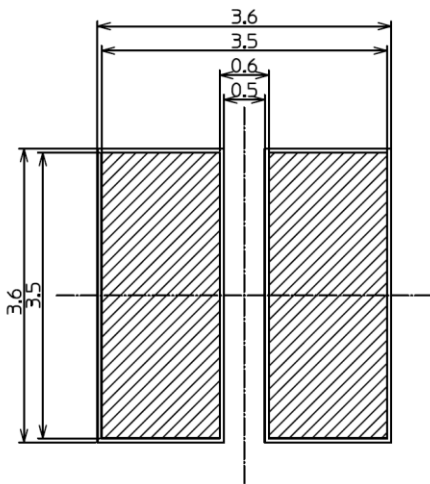
■ Usage examples



- Water disinfection
- Air disinfection
- Surface disinfection

■外観



■推奨はんだ付けパターン



-  推奨はんだパターン/Recommended Pad
-  推奨はんだマスク開口部/Recommended Stencil Pattern

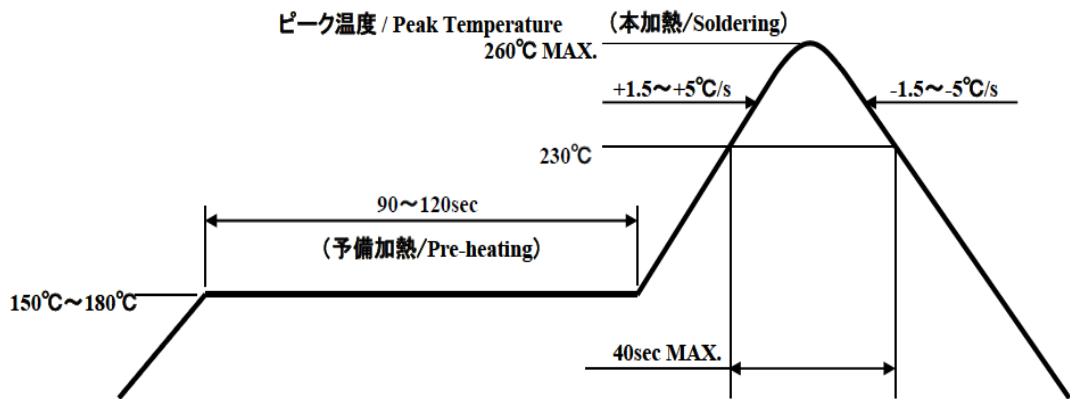
■仕様[参考値] / Specification [Reference Value]

項目 / Item	仕様 / Specification
基板 / Substrate	AIN (Aluminum Nitride)
波長 / Wavelength	Typ.265 nm
光出力 / Power	30 ~ 50 mW
配光角 / Distribution angle	130°
サイズ / Size	3.5 × 3.5 × 1.3mm
定格電流 / Forward current	400 mA
順電圧 / Forward voltage	Typ.8V
動作温度 / Operating Temperature	- 30 °C ~ + 60 °C
保存温度 / Storage Temperature	- 40 °C ~ + 85 °C
ジャンクション温度 / junction temperature	100 °C
熱抵抗[ジャンクション-はんだ付け位置温度] / Thermal resistance [Junction - solder point]	9°C/W
信頼性 / Reliability	別途お問合せ下さい

■ Handling precautions



- (1) This product emits strong UV light when it is lit up. Please do not look directly into the light source, for it could damage your eyes. Should it be necessary to observe the product while it is being lit, always use protective glasses that cut ultraviolet rays with wavelength 200nm~400nm, as well as protective masks and gloves, etc. in order not to expose your skin to the light.
- (2) Please do not lit with opening state due to diffuse UV light which is harmful to the human body.
- (3) This product is sensitive to static electricity and voltage surges. While handling it, please take measures against static electricity.
- (4) When driving current into LEDs, they get heated. Be careful about the heat when using our product. In particular, when the design involves combining several LEDs, please pay attention so that the environmental conditions (such as ambient temperature of each LED die) will not exceed the absolute maximum ratings.
- (5) When storing this product, we recommend using a dry box containing dry materials; temperature of 5 °C to 30 °C, humidity of 50% or less are recommended. When storing for more than 3 months, please keep it in a sealed container filled with nitrogen. If it is stored for a long time under high humidity conditions, the normal functions of the LED will be affected; after opening the packaging, please transfer the remaining LEDs in a moisture-proof pack and re-seal it. Regarding resealing conditions, we recommend temperatures between 5 °C and 40 °C, humidity of 30% or less.
This product is compatible with reflow. Please understand that dip soldering is not recommended and not guaranteed. Please reflow up to 1 degree.
After taking out the LEDs from the bag, please perform soldering as soon as possible. Please refer to the following picture (temperature profile) for the recommended soldering conditions.
- (6) Regarding temperature control, we recommend 7 to 8 zone control.



- (7) When soldering, please do not stress the LEDs in a heated state. In addition, do not apply stress or excessive vibrations, such as warping the printed circuit board while cooling it down to room temperature.
Basically, after solder is attached do not try to retouch it.
- (8) After soldering, please do not suddenly cool down the device.
- (9) Please handle the light emitting part carefully. Do not touch it with a pointed tool such as pincettes. Please also be careful of dirt and dust that may stick to it. Moreover, please do not cover the light emitting part with resin such as epoxy, urethane and so on.
- (10) Avoid cleaning with liquids such as organic solvents. If organic solvents such as acetone adhere to the surface, the reliability of the package may be affected. Also, please do not perform ultrasonic cleaning.
- (11) Do not handle this product with acids or sulfur raw materials in an enclosed space.
- (12) If any trouble is found with this product, please contact us directly. Please do not carry out reverse engineering (disassembly and analysis of this product) without our permission

■ Others

- (1) When designing the circuit, please do not mix reverse current, reverse voltage, etc. Please note that it may cause LED failures.
- (2) When using the LED, please measure and determine the package's maximum current value.
- (3) The technical information described in this document indicate the product characteristics, etc. We do not guarantee the intellectual property rights of our company and third parties, and we do not have the power to issue a license.
- (4) Specification and externals are subject to change for improvement without notice.