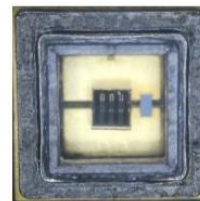




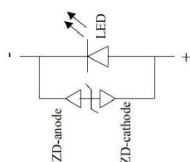
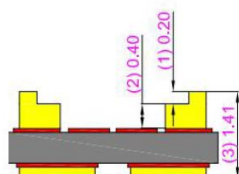
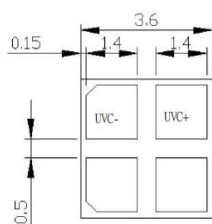
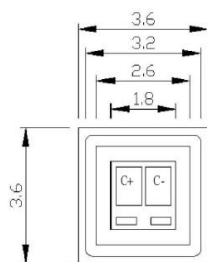
Datasheet No.107U KLHP3535W 0.6W 100mA UV LEDS

Features

- Inorganic Package
- Dimension 3.7 X 3.7 X 1.6mm
- Long operating life
- Deep Ultraviolet UVC
- High reliability
- Superior ESD Protection
- RoHS Compliant



Package Dimensions



Applications

- Sterilization and disinfection
- Fluorescent Spectroscopy
- Water Purification
- Air Purification

Tolerance: $\pm 0.20\text{mm}$

Characteristics of UVC LED

Electrical/ Optical Characteristics at $I_f = 100\text{mA}$ $T_a = 25^\circ\text{C}$ $\text{RH} = 40\%$

Parameter	Symbol	Units	Values
Peak Wavelength	λ_p	nm	275-285
Radiant Flux	ϕ_e	mW	10-12, 12-18
Forward Voltage	V_f	V	5-7
Thermal Resistance	R_{th}	$^\circ\text{C}/\text{W}$	<10
Spectrum Half Width	$\Delta\lambda$	nm	9.2
View Angle	$2\theta_{1/2}$	deg	120

On Request: Wavelength 250-275nm, Flux 12-50mW

Above single LED can give a dose of 700 mJ in every minute. We design the LEDs Array as per your disinfection Dose, object distance; Recommended Dose for Disinfection is minimum $30\text{mJ}/\text{cm}^2$

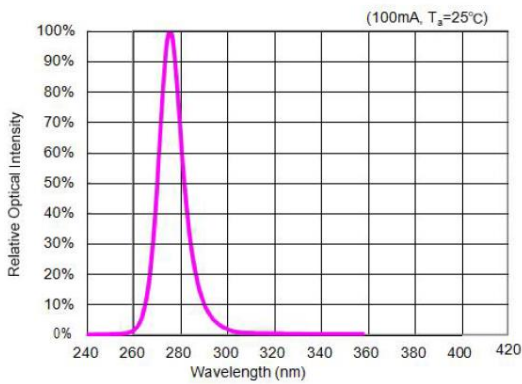
Absolute Maximum Rating ($T_a = 25^\circ\text{C}$, $\text{RH} = 40\%$)

Parameter	Symbol	Units	Values
Maximum Rating Forward Current	I_{Fmax}	mA	120
Maximum Rating Junction Temperature	T_{jmax}	$^\circ\text{C}$	120
Operating Temperature Range	T_{opr}	$^\circ\text{C}$	-10~+85
Storage Temperature Range	T_{stg}	$^\circ\text{C}$	-40~+100

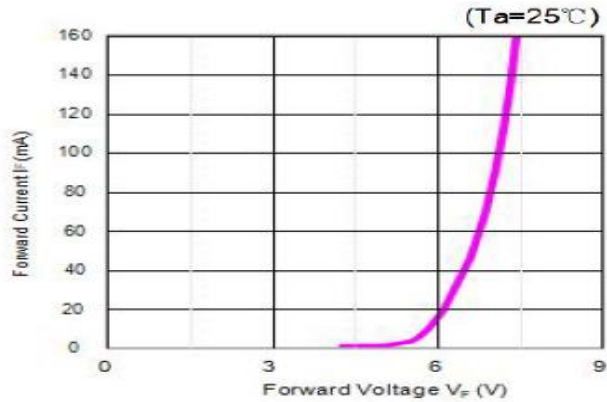
Note: Operating the LED beyond the listed maximum ratings may affect device's reliability and cause permanent damage. These or any other conditions beyond those indicated under recommended operating conditions are implied. The exposure to the absolute maximum rated conditions may affect device reliability.

Characteristic Curves

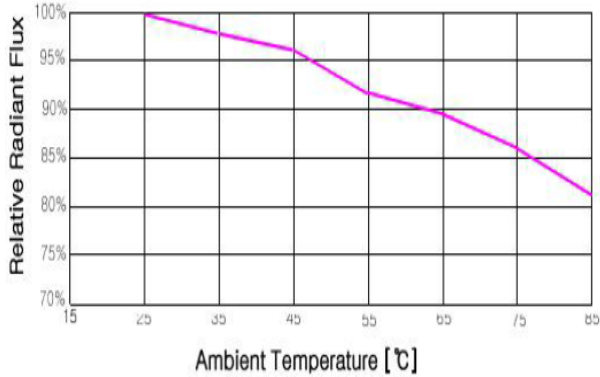
1. Relative Spectrum Power Distribution



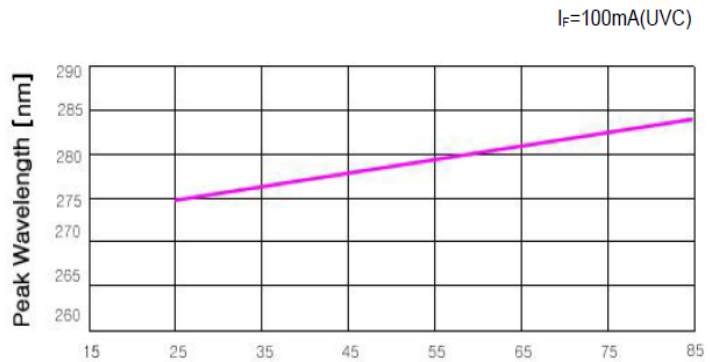
2. Forward Voltage vs Forward Current



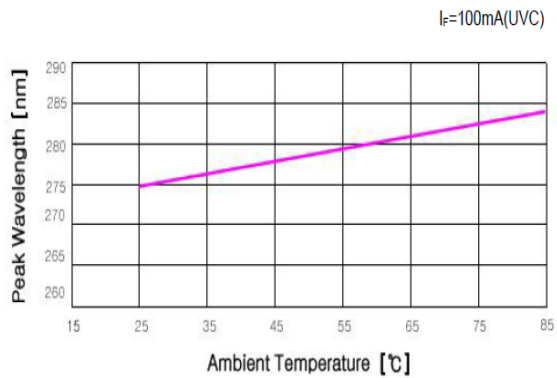
3. Relative Radiation Flux vs. forward Current



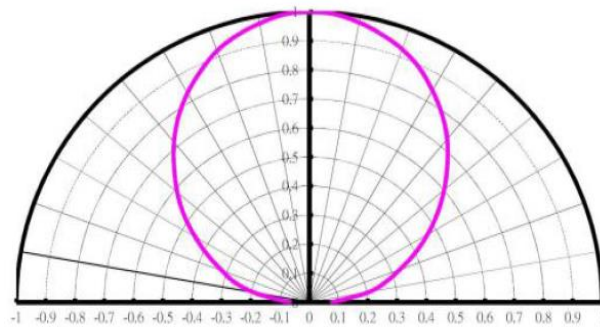
4. Peak Wavelength vs forward Current



5. Spectrum half-wave width vs forward Current



6. Spatial Distribution Graph



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