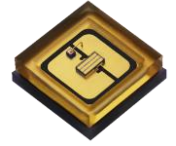


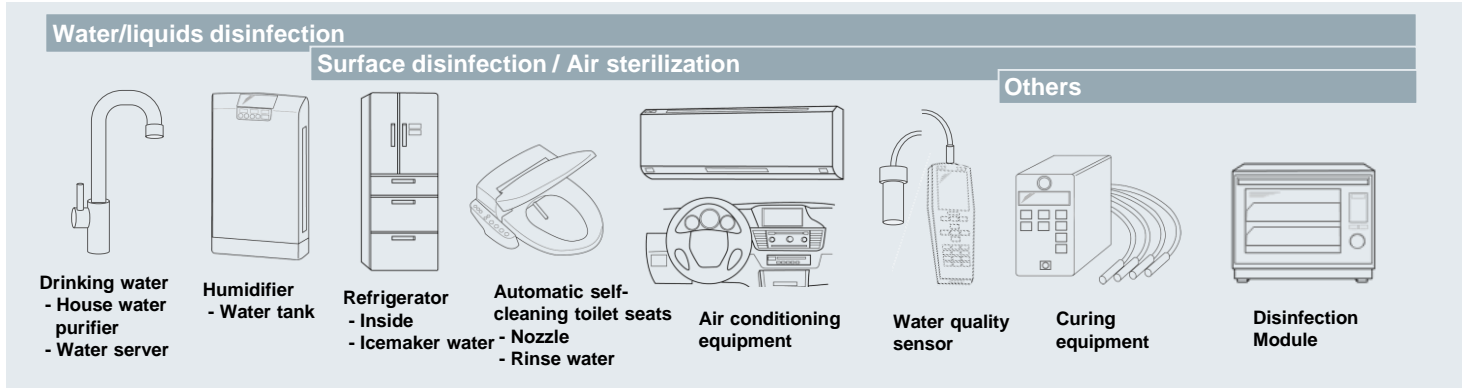
## 265 nm variation for UV sterilization

### New line up for various application



Z \* UFE265 Series

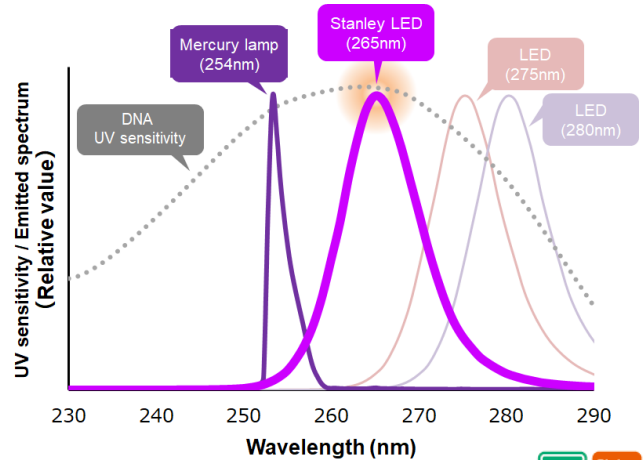
### ◆ Applications



- Ultraviolet sterilization that directly affects the DNA of bacterium
- No residual risk due to no use of chemicals

### ◆ Features

- 265 nm : the highest sterilizing capability
- Light output variation: 6 to 30 mW
- Offers clear advantages over UV lamps:
  - Compact
  - Mercury-free
  - Low power consumption
  - Low heat generation
  - Instant ON/OFF switching

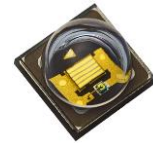


### ◆ Specifications

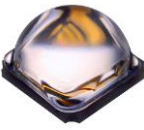
			Under Development			RoHS2	Pb-free HEAT
Part Name			ZKUF265	ZJUF265	ZGUF265	Units	
Basic Characteristics	Wavelength	$\lambda_p$	265			nm	
	Light output	$P_o$	6	12	30	mW	
	Forward voltage	$V_F$	7.3	7.4	7.5	V	
	Half intensity angle	$2\theta_{1/2}$	135	135	135	deg.	
	Forward current	$I_F$	50	110	260	mA	
Absolute maximum ratings	Forward current	$I_F$	20~100	40~180	50~300	mA	
	Junction temp.	$T_j$	100	100	100	°C	
	Thermal resistance	$R_{th(j-s)}$	25	17	10	°C/W	
	Operating temp.	$T_{opr}$	-30~+85			°C	
	Storage temp.	$T_{stg}$	-40~+100			°C	
Size		$L \times W \times H$	3.6 × 3.6 t=1.04			mm	



## 265 nm variation for UV sterilization Achieved high power and high reliability



ZEUBE265



Z\*UDE265

### ◆ Applications

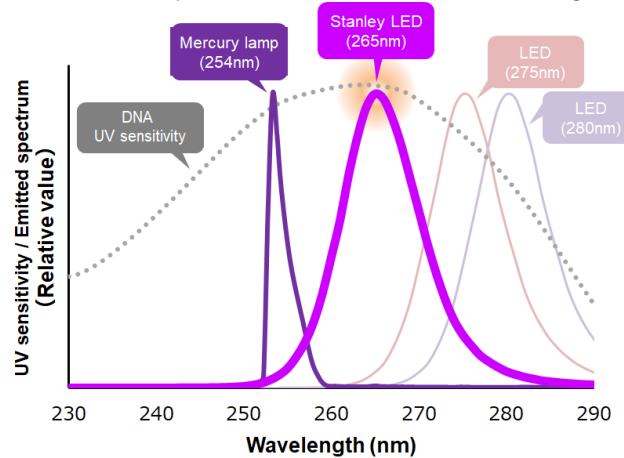
Water/liquids disinfection		Surface disinfection / Air sterilization			Others		
<p><b>Water purification devices</b></p> <ul style="list-style-type: none"> <li>- Water purification</li> <li>- Wastewater treatment</li> <li>- Industrial water</li> <li>- Cleaning water</li> <li>- Amenities</li> <li>- Fisheries / Agricultural water</li> </ul>	<p><b>Drinking water</b></p> <ul style="list-style-type: none"> <li>- House water purifier</li> <li>- Water server</li> </ul>	<p><b>Humidifier</b></p> <ul style="list-style-type: none"> <li>- Water tank</li> </ul>	<p><b>Refrigerator</b></p> <ul style="list-style-type: none"> <li>- Inside</li> <li>- Icemaker water</li> </ul>	<p><b>Automatic self-cleaning toilet seats</b></p> <ul style="list-style-type: none"> <li>- Nozzle</li> <li>- Rinse water</li> </ul>	<p><b>Air conditioning equipment</b></p>	<p><b>Water quality sensor</b></p>	<p><b>Curing equipment</b></p>

- Ultraviolet sterilization that directly affects the DNA of bacterium
- No residual risk due to no use of chemicals

### ◆ Features

- 265 nm : the highest sterilizing capability
- Light output variation: 50 to 200 mW
- Hermetic sealed package
- Long life (10,000h/L70) ※1
- Good characteristic at high temperatures
- Offers clear advantages over UV lamps:
  - Compact
  - Mercury-free
  - Low power consumption
  - Low heat generation
  - Instant ON/OFF switching

UV sensitivity of DNA and emitted wavelength



### ◆ Specifications

Part Name			In mass production		Under development		Units
			ZEUBE265		ZEUDE265 (Multi chip)	ZHUDE265 (Single chip)	
			-2CA	-1DA(※2)			
Basic Characteristics	Wave length	$\lambda_p$	265				nm
	Light output	$P_o$	50	70	200		mW
	Forward voltage	$V_F$	6.9	6.9	28	7.5	V
	Half intensity angle	$2\theta_{1/2}$	120	120	115	105	deg.
	Sorting current	$I_F$	440	440	400	1,700	
Absolute maximum ratings	Forward current	$I_F$	500		500	2,200	mA
	Junction temp.	$T_j$	100		100	100	°C
	Thermal resistance	$R_{th(j-s)}$	6.0		3.3	3.0	°C/W
	Operating temp.	$T_{opr}$	-30~+85				°C
	Storage temp.	$T_{stg}$	-40~+100				°C
Size	LxWxH	3.6 × 3.6 t=2.24			4.1 × 4.1 t=3.0		mm

※1 Conditions : ZEUBE265,  $T_j=70^\circ\text{C}$     ※2.Engineering sample is available

