



# UVC LED Evaluation Kit






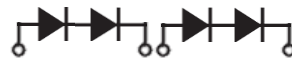
## - Summary -

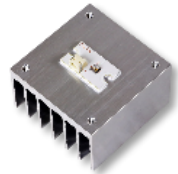

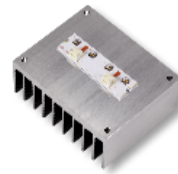
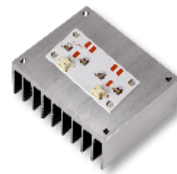
- This evaluation kit is for simple evaluation of our UVC LEDs.
- The LEDs can be easily driven by connecting the terminal of the LED unit base or the lead of the connector to the power supply. Please use a power supply such as a stabilized power supply for lighting, and be careful not to over-input voltage or current.
- The mounted PCB is also available with a thermocoupling pattern which can be integrated by the customer.
- All of our UVC LEDs can be tested with the evaluation kit. For inquiries about mountable LEDs and the specification of mounted LEDs, please contact our sales department or our distributors.
- The maximum ratings and electro-optical characteristics vary depending on the mounted LEDs, mounting conditions and operating environment. Please use it after setting parameters which take into account the environment when in use. Please refer to the data sheet of the mounted LED before use in order to ensure usage is within the maximum ratings.
- UVC LEDs generate much more heat than common visible light LEDs. Please provide a heatsink structure or be careful not to increase the current too much when driving the LEDs. Please be careful not to touch PCB or heat sink when driving as it can become very hot during use.
- The heat sink type is designed to not exceed the maximum junction temperature even if lit at the maximum rated current in a normal temperature environment ( $T_a=25^{\circ}\text{C}$ ).
- Illumination voltage of UVC LEDs is 6~7V. It is higher than common visible light LEDs (2~3V). Please note that the LEDs may not illuminate if using the same operating circuit as visible light LEDs.



**Warning**

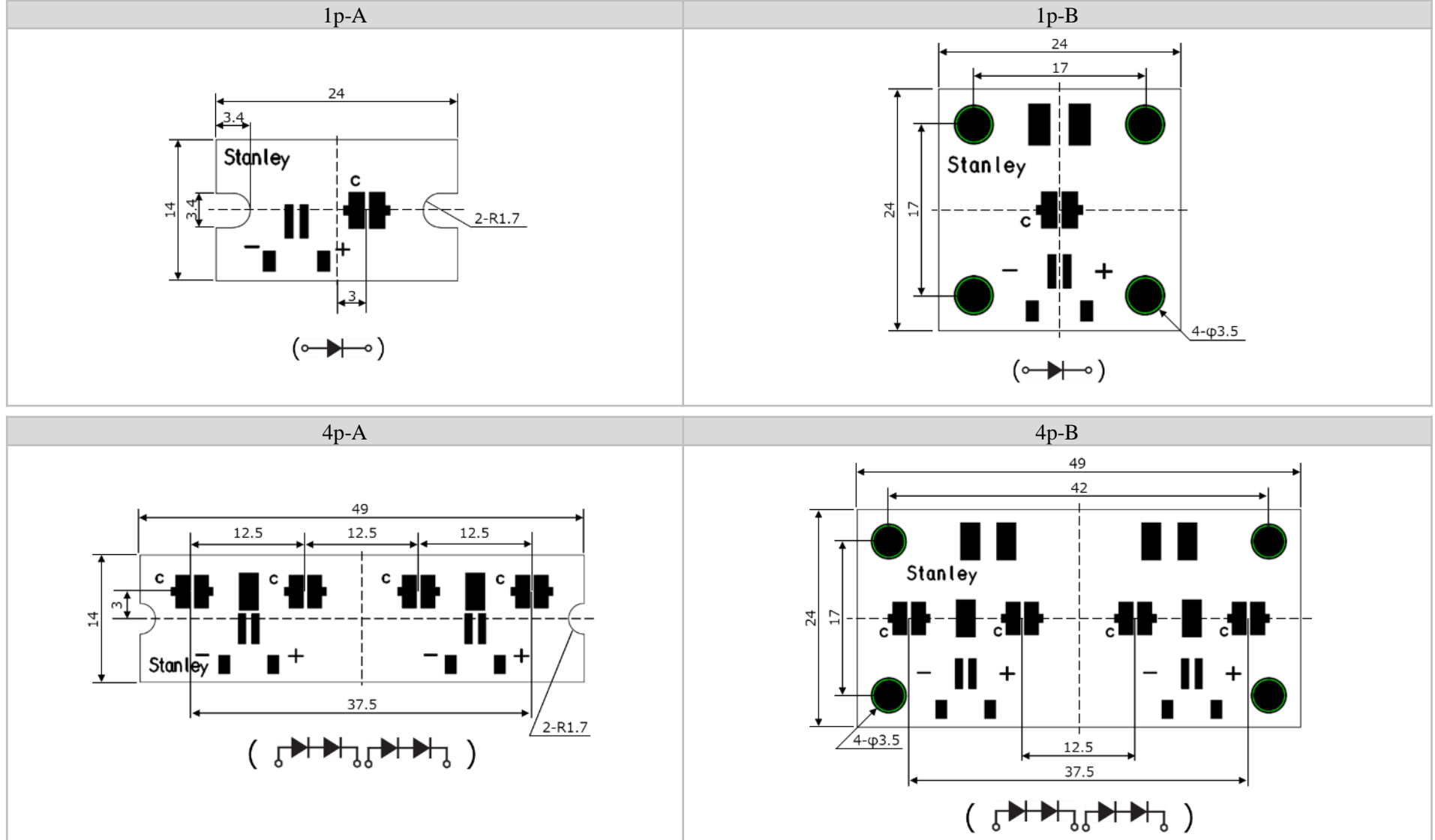
- Strong UV rays are irradiated from the UVC LED when lit which may damage your eyes. Please do not look directly at the LED when illuminated.
- If you must observe the product when lit, be sure to use protective glasses that block UV, as well as use protective masks and gloves to minimize the exposed areas on your skin.

Product name	1p-AC	1p-BC	4p-AC	4p-BC
Aluminum PCB with connector with lead wire				
Number of LEDs	1 pcs		4 pcs	
LED pitch	—		12.5 mm	
PCB size (mm)	24 × 14 t=1.6	24 × 24 t=1.6	49 × 14 t=1.6	49 × 24 t=1.6
Circuit				
Connector	JST S2B-ZR-SM4A-TF / Lead wire 500mm			

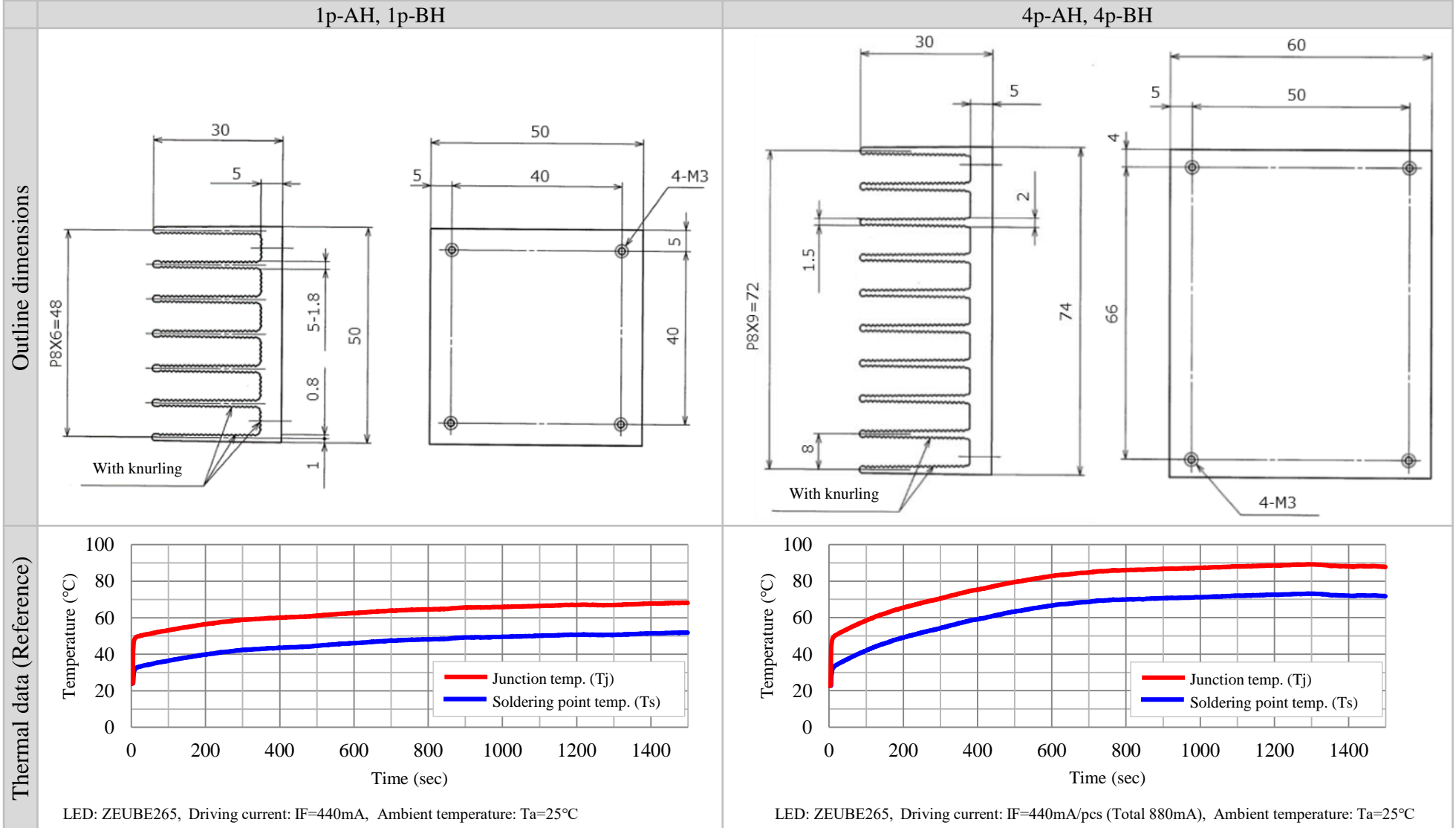
Product name	1p-AH	1p-BH	4p-AH	4p-BH
Aluminum PCB with connector with lead wire with heat sink				
Heat sink size (mm)	50 × 50 t=30		66 × 60 t=30	
Delivery	LED/Connector mounted PCB, Adhesive sheet, Heat sink (customer assembly)			

- Please note PCB or Heat sink must be purchased with LED.
- Simple lighting power supply is also available. Please feel free to contact us.
- For any inquiries or requests, please contact our sales department or our distributors.

[Aluminum PCB] Outline dimensions



[Heat sink for thermal radiation] Outline dimensions & thermal data



- Temperature varies depending on ambient temperature, operating environment, and driving current.
- Junction temperature is calculated by solder point temperature measured with a thermocouple and the LED's thermal resistance value.

- A bar light evaluation kit with a row of LEDs is also available. It can be lit by connecting directly to the AC power supply.

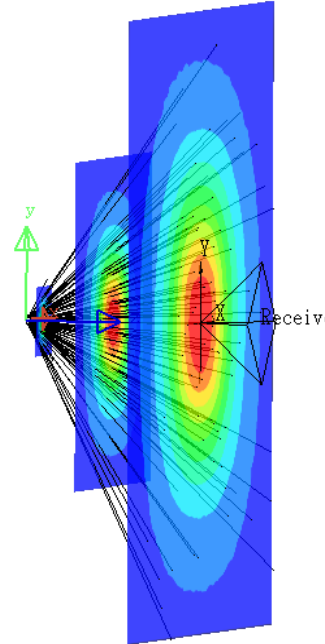


- Power supply with ON/OFF switch is available.
- Please contact us for information on dimming circuits.

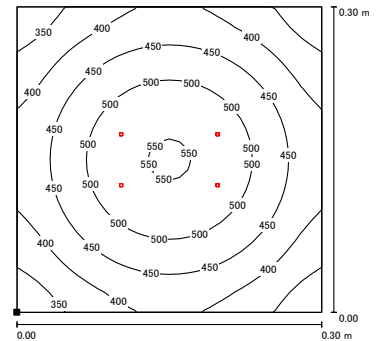
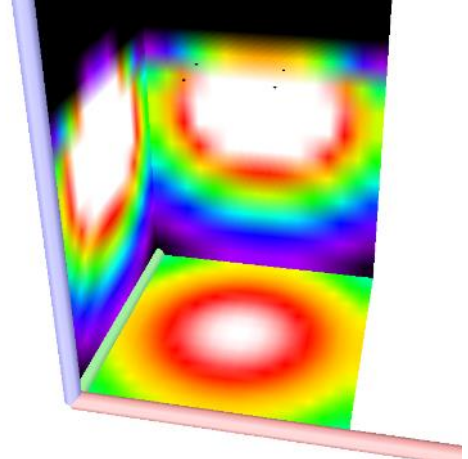


- We also provide support for sterilization, such as LED ray data, optical simulation and sterilization simulation.

Provide ray data



Simulations



For any inquiries or requests as well as questions about our evaluation kit, please contact our sales department or our distributors.