

Module-UVCLED-10mW*4-100mA-170*10

DATA SHEET

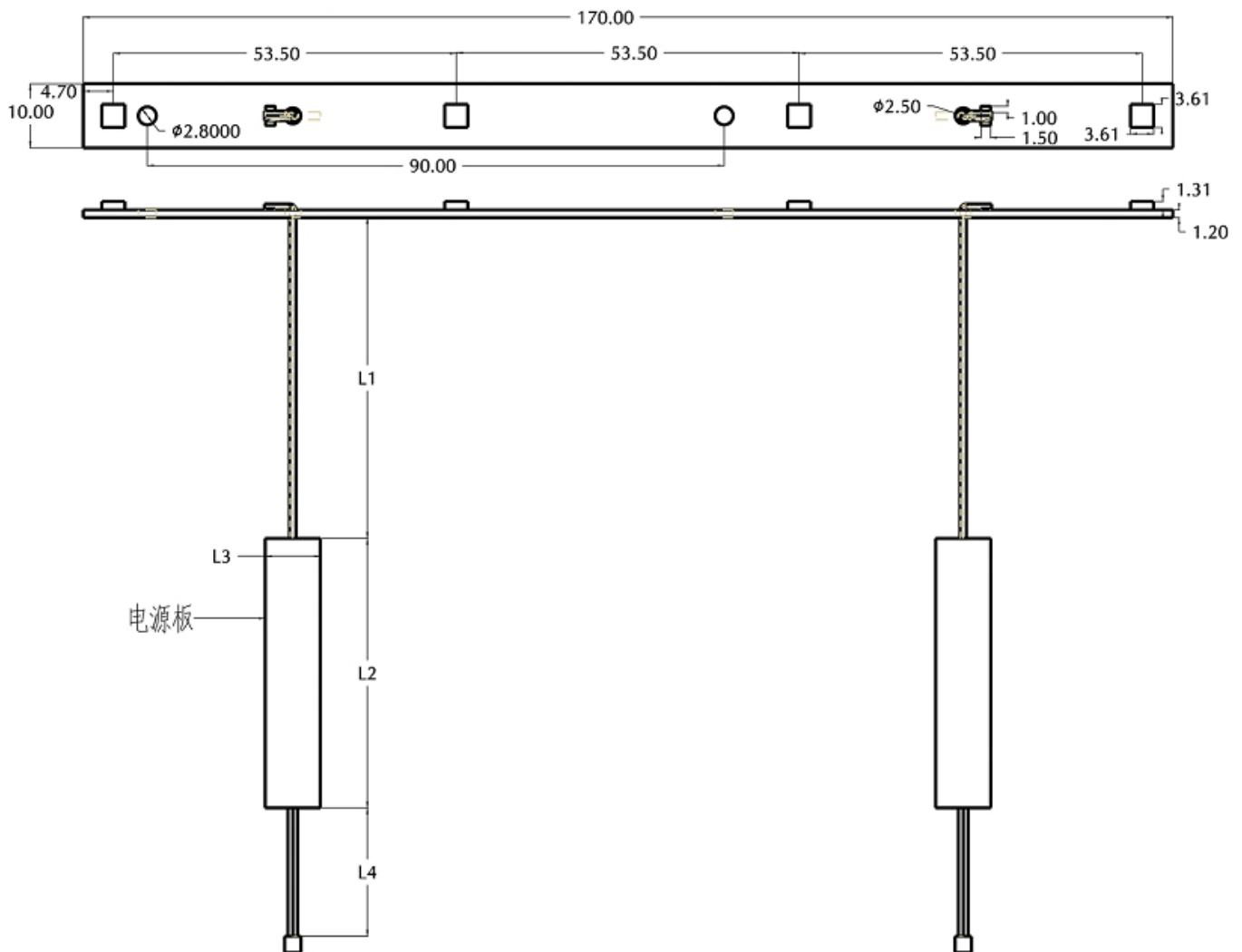
SPEC. NO. : SZ21070701
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Approved By:

Checked By:

Prepared By:

Dimensions of Module



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.50 mm unless otherwise noted.
3. The dimensions of L1, L2, L3 and L4 are determined by the customer's final assembly conditions.
4. The wire connection mode is defined by the customer's requirements.
5. Specifications are subject to change without notice.

Features

- ◆ Pb free product—RoHS compliant
- ◆ Wavelength $\lambda_p=270-280\text{nm}$
- ◆ Sterilization and disinfection

Typical Applications

- ◆ Intelligent sweeping robot
- ◆ Water filter
- ◆ Air filter

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Module			
Parameter	Symbol	Ratings	Unit
Input Voltage	DC	14-27	V
Input Current	Ic	>0.6	A
Anti Surge	Vs	100	V
Module Temperature Rise (continuous working for 1 hour)	Tr	<30	K
Electrostatic Discharge (HBM)	ESD	2000	V
Operating Temperature Range	T _{opr}	-15°C ~ + 60°C	°C
Storage Temperature Range	T _{stg}	-25°C ~ + 85°C	°C

Note: 1. Pulse width $\leq 0.1\text{msec}$, duty cycle $\leq 1\%$;

Electrical Optical Characteristics at Ta=25°C

Single UVLED						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Power Dissipation	Pd	450	---	750	mW	I _F =100mA
Peak Wavelength	λ _p	270	---	280	nm	I _F =100mA
Radiant Flux	Φ _e	10	---	15	mW	I _F =100mA
Forward Voltage	V _F	4.5	---	7.5	V	I _F =100mA
Reverse Current	I _R	---	---	10	μA	V _R =5V

Radiation Pattern (@100mA):

