LTF TECHNOLOGY

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QLUXUVCL1524W6LED275

Copper Core 6LED Linear UVC Board

UV-C

Package	Copper Core PCB
Chip Technlology	AIGaN based flip chip
Typ. Radiation	120°
Peak Wavelength	λ_{peak} 275 nm (ultraviolet UV-C)
ESD	5 kV
Radiant Flux	31.2mW (typ.) @ 60mA
Radiant Efficiency	typ. 2.9%

The compact UV-C LED is part of the OSLON UV Series. It offers high efficiency in high power class.

FEATURES

- Copper core PCB with low thermal resistance
- Chip technology: AIGaN based flip chip
- Typ. Radiation: 120°
- Color: peak = λ_{peak} 275nm (ultraviolet (UV-C))
- ESD: 2kV acc. to ANSI/ESDA/JEDEC JS-001 (HBM)
- Radiant Flux (typ.) 31.2mW
- Radiant Efficiency typ. 2.9%
- OSRAM UVC LED

APPLICATIONS

- Agriculture
- Horticulture
- UV-C Treatment
- Disinfection
- Water Treatment
- Industrial Applications

MODEL SPECIFICATIONS

Model	Total radiant flux
QLUXUVCL1524W6LED275	31.2 mW (typ.) @ 60mA

RECOMMENDED DRIVER

Model	Input Voltage	Output Voltage	Output Current
DS2W060C0522B5ND	120-277V 50/60 Hz	05-22V	60mA

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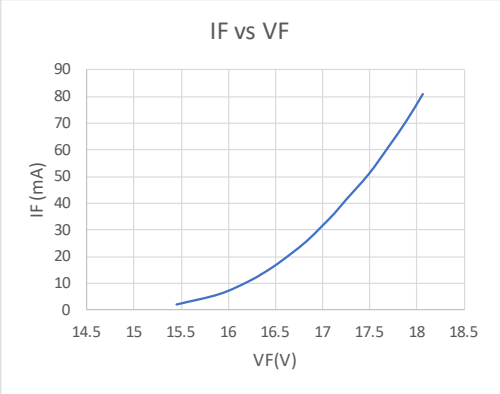
UV-C MAXIMUM RATINGS

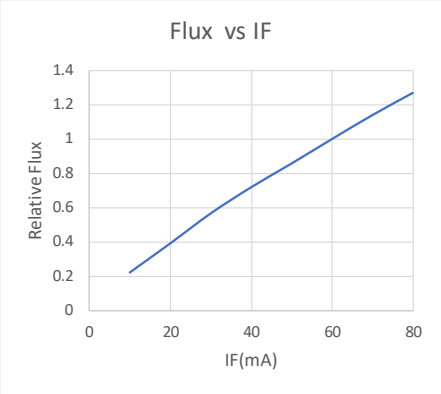
Parameter	Symbol		Values
Operating Temperature	T_{op}	min.	-40°C
		max.	60° C
Storage Temperature	T_{stg}	min.	-40°C
		max.	100°C
Junction Temperature	T_j	max.	85°C
Forward current	I_F	min.	1.00 mA
T_S=25°C		max.	80.0 mA
Surge Current	I_{FS}	max.	100 mA
T_S=25°C			
ESD withstand voltage	V_{ESD}		5 kV
acc. to ANSI/ESDA/JEDEC JS-001 (HBM)			

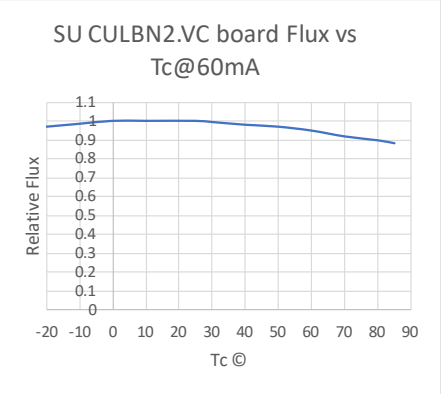
CHARACTERISTICS

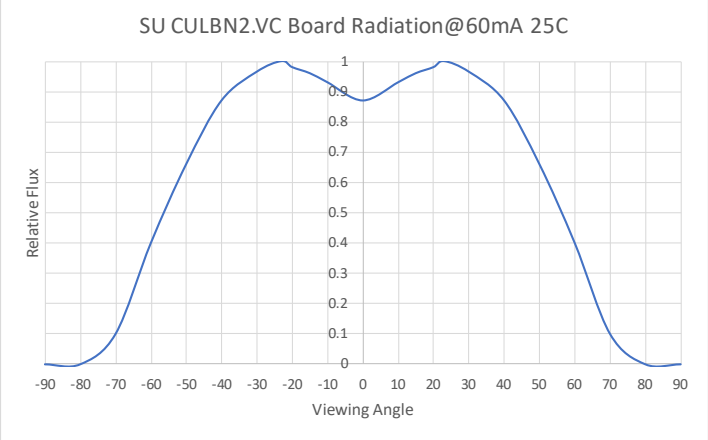
I_F=60 mA; T_s=25°C

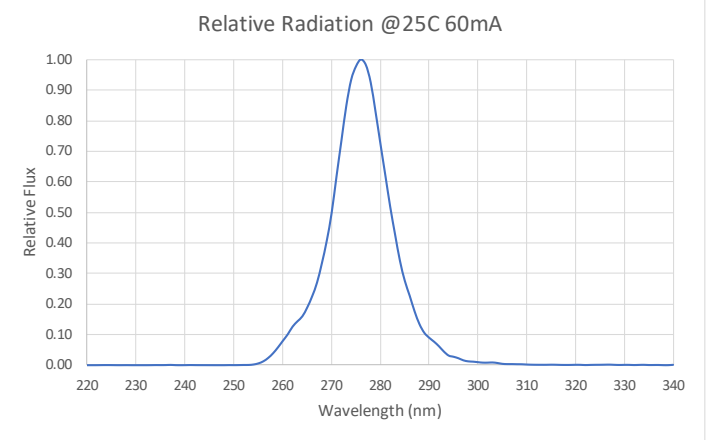
Parameter	**Symbol**		**Values**
Peak Wavelength	λ_{peak}	min.	270 nm
		typ.	275 nm
		max.	280 nm
Viewing angle at 50% Iy	2φ	typ.	120°
Forward Voltage [3]	V_F	min.	15.50 V
		typ.	17.50 V
		max.	19.50 V
Real thermal resistance junction/solderpoint[4]	$R_{thJS\ real}$	typ.	40 K / W
Electrical thermal resistance junction/solderpoint	$R_{thJS\ real}$	typ.	38 K / W
with efficiancy η_e=2.72%			

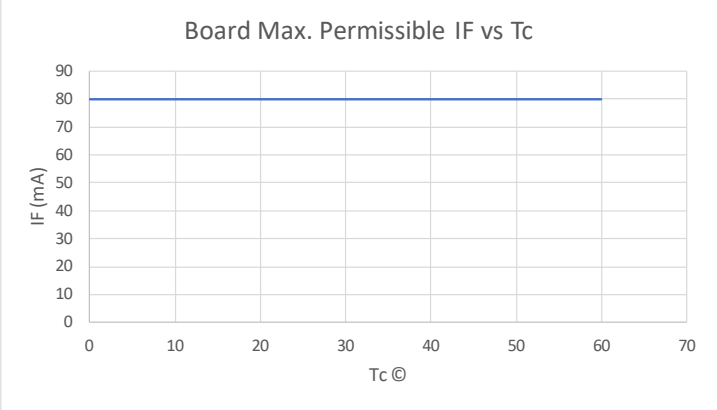




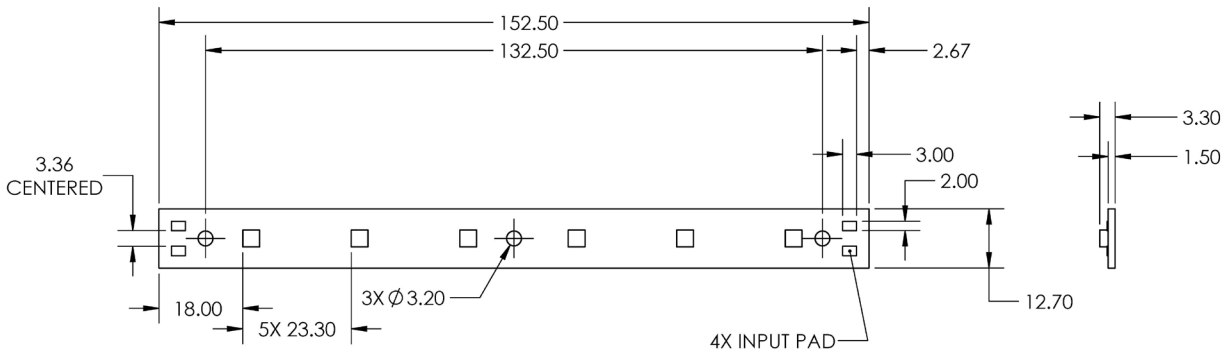








MECHANICAL SPECS



Notes

The evaluation of eye safety occurs according to the standard IEC 62471:2006 (photo biological safety of lamps and lamp systems). Within the risk grouping system of this IEC standard, the device specified in this data sheet falls into high risk group – RG 3. WARNING - UV emitted from this product. Avoid eye and skin contact to unshielded product. Subcomponents of this device contain, in addition to other substances, metal filled materials including silver.

Metal filled materials can be affected by environments that contain traces of aggressive substances. Therefore, we recommend that customers minimize device exposure to aggressive substances during storage, production, and use. Devices that showed visible discoloration when tested using the described tests above did show no performance deviations within failure limits during the stated test duration. Respective failure limits are described in the IEC60810.

UV-C RISK GROUP 3
UV-C **WARNING UV-C** emitted from this product. Avoid eye and skin exposure to unshielded product. Follow installation instructions and user manual.

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