LTF TECHNOLOGY

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QLUXUVCR202W1LED265-KT

LTF LED Driver & UV-C Board Kit

UV-C LED BOARD	
Model Number	QLUXUVCR202W1LED265
Package	Copper Core PCB
Chip Technlology	AlGaN based flip chip
Typ. Radiation	150°
Color	λ_{peak} 265 nm (ultraviolet UV-C)
ESD	2 kV
Radiant Flux	100mW (typ.) @250mA
Radiant Efficiency	typ. 5.7%

LTF® LED DRIVER	
Model Number	DS2W250C0510B5ND
Efficiency	>85%
Case TC	>0.90
Protection	Input / Output
Storage	-30°C / +90°C
Humidity	95% RH
IP Rating	IP67
Class	Class 2 Power Supply
Constant Current	250mA

UV-C FEATURES

- Copper core PCB with low thermal resistance
- Chip technology: AlGaN based flip chip
- Typ. Radiation: 150°
- Color: peak = λ_{peak} 265nm (ultraviolet (UV-C))
- ESD: 2kV acc. to ANSI/ESDA/JEDEC JS-001 (HBM)
- Radiant Flux (typ.) 100mW
- Radiant Efficiency typ. 5.7%
- OSRAM UVC LED

LED DRIVER FEATURES

- Universal input voltage; 120-277V AC
- Isolated output power per NEC and UL safety requirements
- UL recognized/Listed, UL8750, UL1310
- Auto-reset; Short circuit, overload and thermal protection
- Superior thermal performance
- Low profile, small form factor, junction box mountable
- Class 2 power supply and other than Class 2 options
- Efficient, high power factor, low THD, FCC Class B

APPLICATIONS

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

MODEL SPECIFICATIONS

UV-C Model	Total radiant flux
QLUXUVCR202W1LED265	90.0 ... 130.0 mW@250mA

LED Driver Model	Input Voltage	Wattage	Output Voltage	Output Current
DS2W250C0510B5ND	120V-277V AC	2W	05V - 10V DC	250mA

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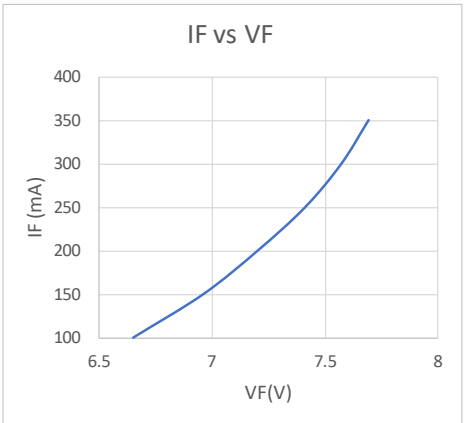
UV-C MAXIMUM RATINGS

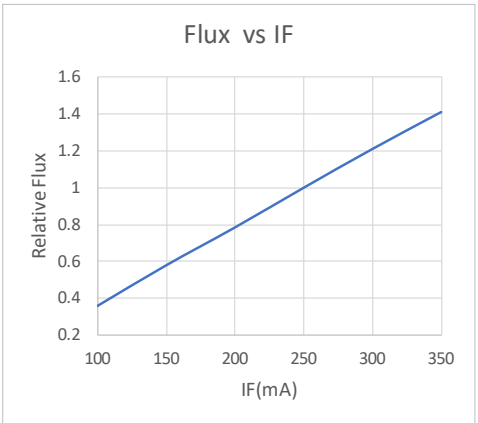
Parameter	Symbol		Values
Operating Temperature	T_{op}	min.	10°C
		max.	60° C
Storage Temperature	T_{stg}	min.	-30°C
		max.	75°C
Junction Temperature	T_j	max.	75°C
Forward current	I_F	min.	100 mA
T_S=25°C		max.	350 mA
Surge Current	I_{FS}	max.	500 mA
T_S=25°C			
ESD withstand voltage	V_{ESD}		2 kV
acc. to ANSI/ESDA/JEDEC JS-001 (HBM)			

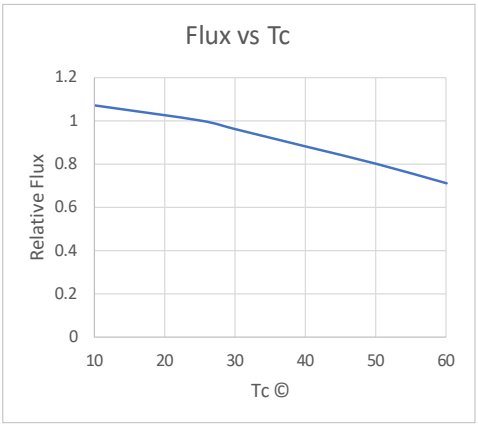
UV-C CHARACTERISTICS

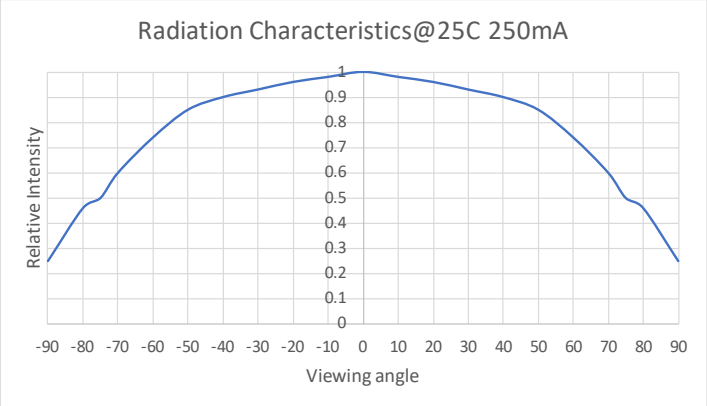
I_F=250 mA; T_S=25°C

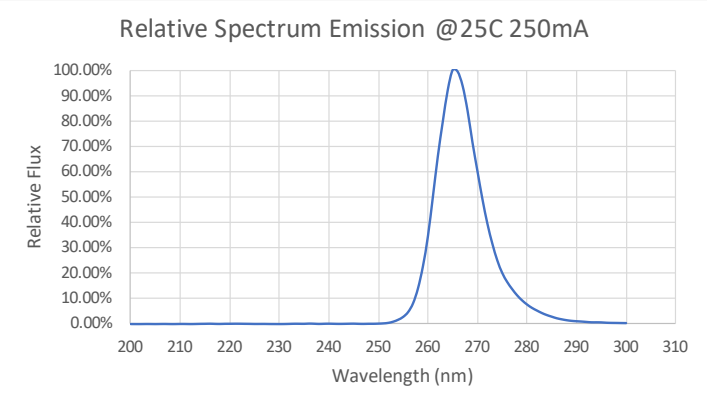
Parameter	**Symbol**		**Values**
Peak Wavelength	λ_{peak}	min.	260 nm
		typ.	265 nm
		max.	270 nm
Viewing angle at 50% Iy	2φ	typ.	150°
Forward Voltage [3]	V_F	min.	5.50 V
		typ.	7.00 V
		max.	7.50 V
Real thermal resistance junction/solderpoint[4]	$R_{thJS\ real}$	typ.	4.4 K / W
Electrical thermal resistance junction/solderpoint	$R_{thJS\ real}$	typ.	4.1 K / W
with efficiancy η_e=5.7%			

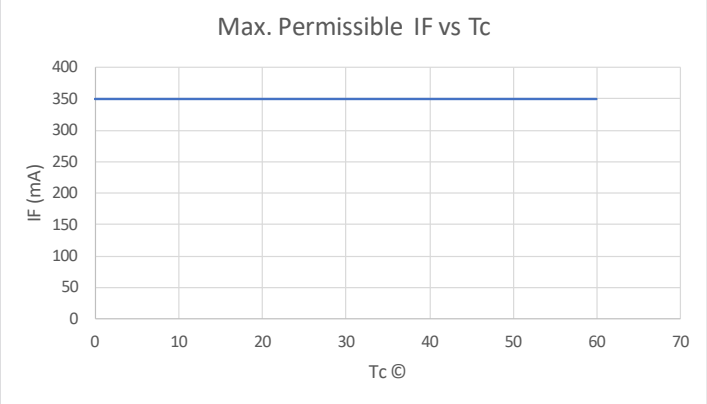




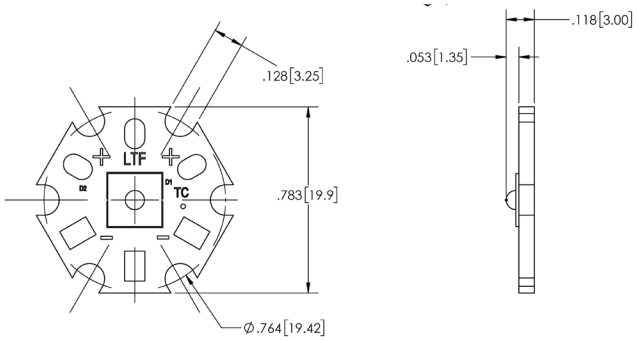






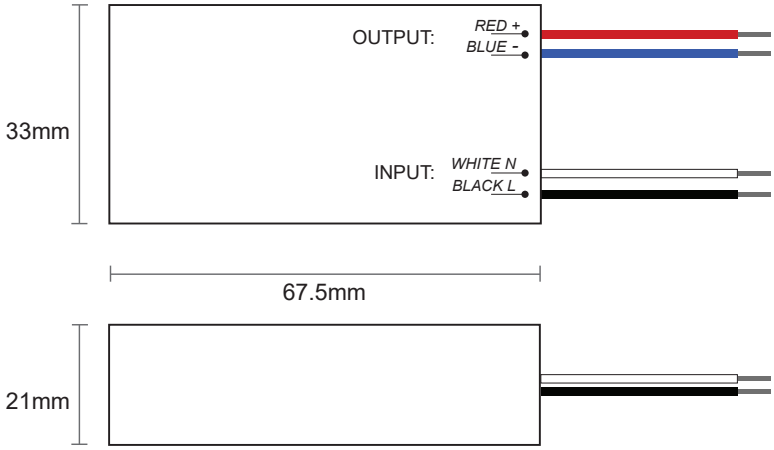


UV-C MECHANICAL SPECS



DRIVER MECHANICAL SPECS

FORM FACTOR	DIMENSIONS
B5	67.5 x 33 x 21mm



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.