

LIGHT ENGINE VIOLET UVC 281x19.2mm 642 mW

Issue Date	May - 2020
Issued by	Bitencourt E.

Applications

- Medical sterilization
- Drinking water disinfection
- Infectious disease control
- Food processing sterilization
- Air sterilization

Characteristics

- UV Type - UVC
- Wavelength – 275nm
- Efficacy - up to 1.3%
- L70 > 20,000h
- 05 years warranty



DRIVING CURRENTS

Parameter	Nominal	Max
LIGHT ENGINE VIOLET UVC 281mm x 19.2mm 642mW	1400 mA	1600 mA

MODULE TEMPERATURES

Parameter	Nominal	Max
Tc (temperature at Tc point)	75 °C	95 °C

PRODUCT PART NUMBER

80310500100

UVC – 275 nm

TECHNICAL INFORMATION

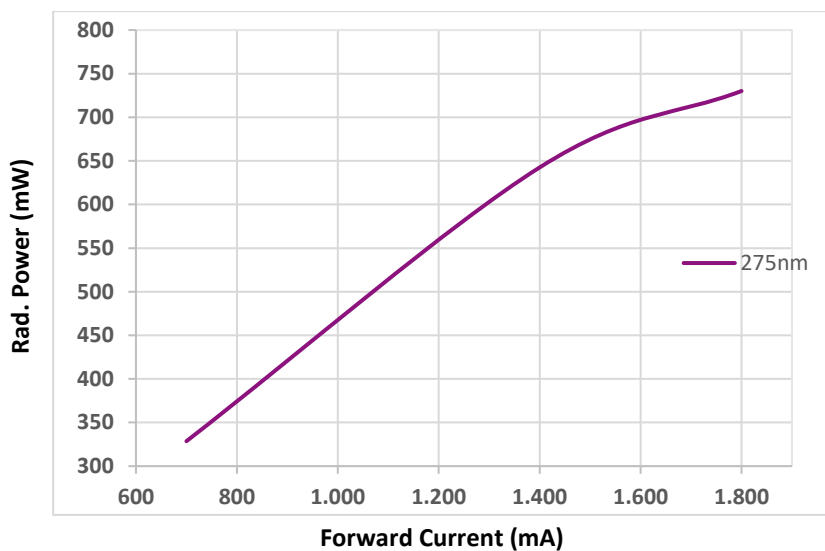
UV Type	Wavelength (nm)	#LEDs	Forward Current (mA)	Rad. Power (mW)	Forward Voltage (V)	Power (W)	Tj (°C)	EFF (%)
UVC	275	12	700	328.6	36.4	25.5	75	1.3
			1,400	642.5	39.6	55.4	75	1.2
			1,600	730.1	40.2	64.2	75	1.1

LED TYPE

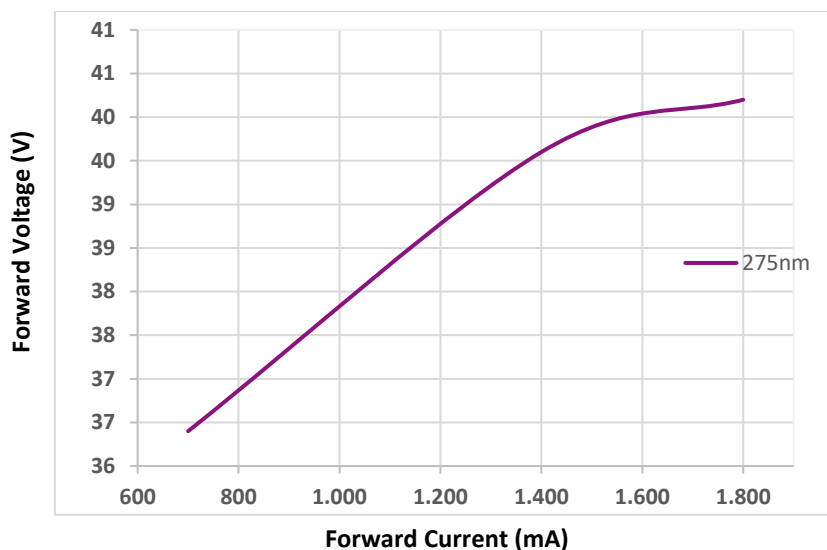
Manufacturer: Luminus

LED Series: XBT 3535 UV

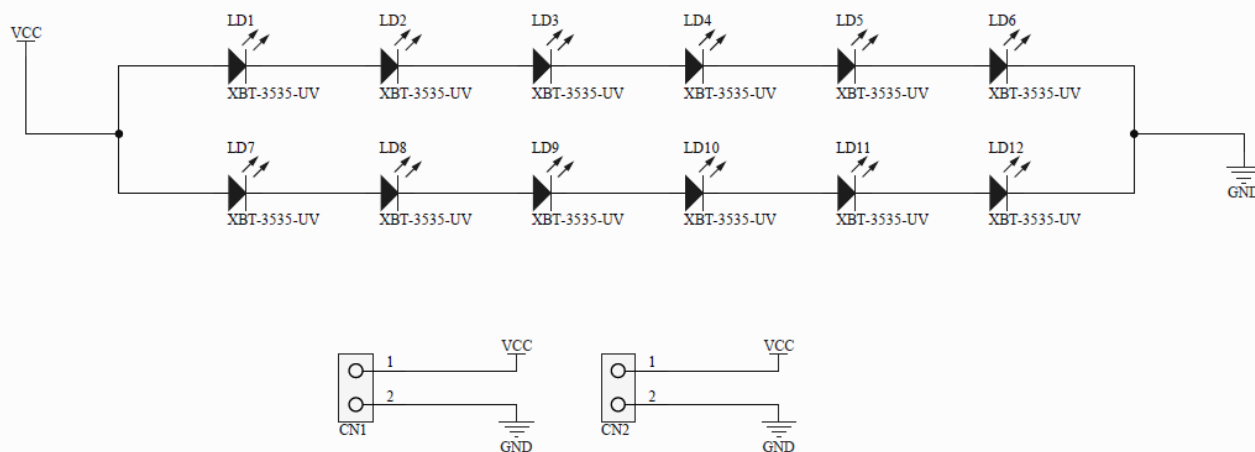
Rad. Power (mW) x Forward Current (mA) (Tj 75°C)



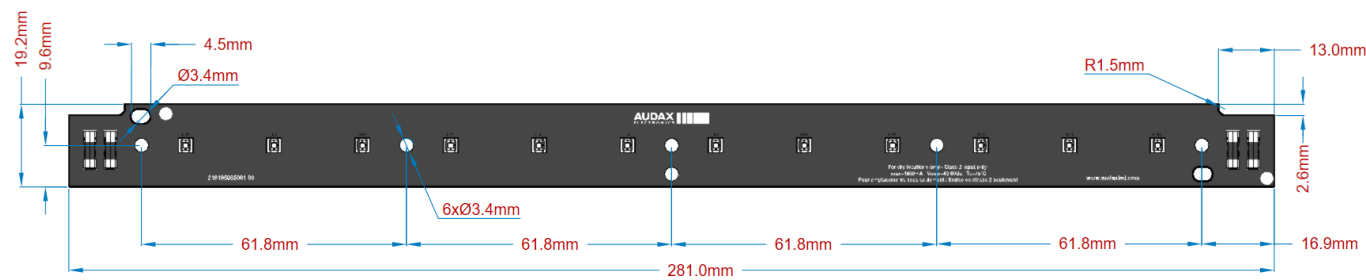
Forward Voltage (V) x Forward Current (mA) (Tj 75°C)



SCHEMATICS



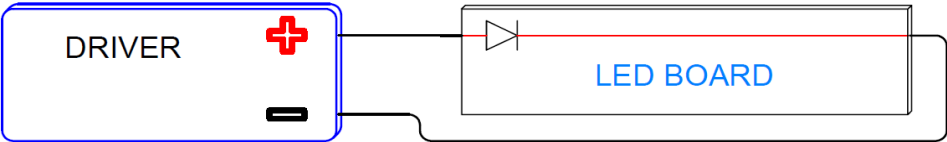
MECHANICAL DRAWING



Unit: mm

WIRING

Specification item	Value	Unit	Condition
Input wire cross- section	0.25...0.75 18...24	mm ² AWG	Solid wire
Input wire strip length	7.5...8.5	mm	Solid wire
Input wire cross-section	0.33...0.5 20...22	mm ² AWG	Stranded wire
Input wire strip length	7.5...8.5	mm	Stranded wire



COMPATIBLE OPTICS

Manufacturer	Part Number	Color	Beam
LEDiL	FN17294_VIOLET-12X1-S	Clear	~20°



