

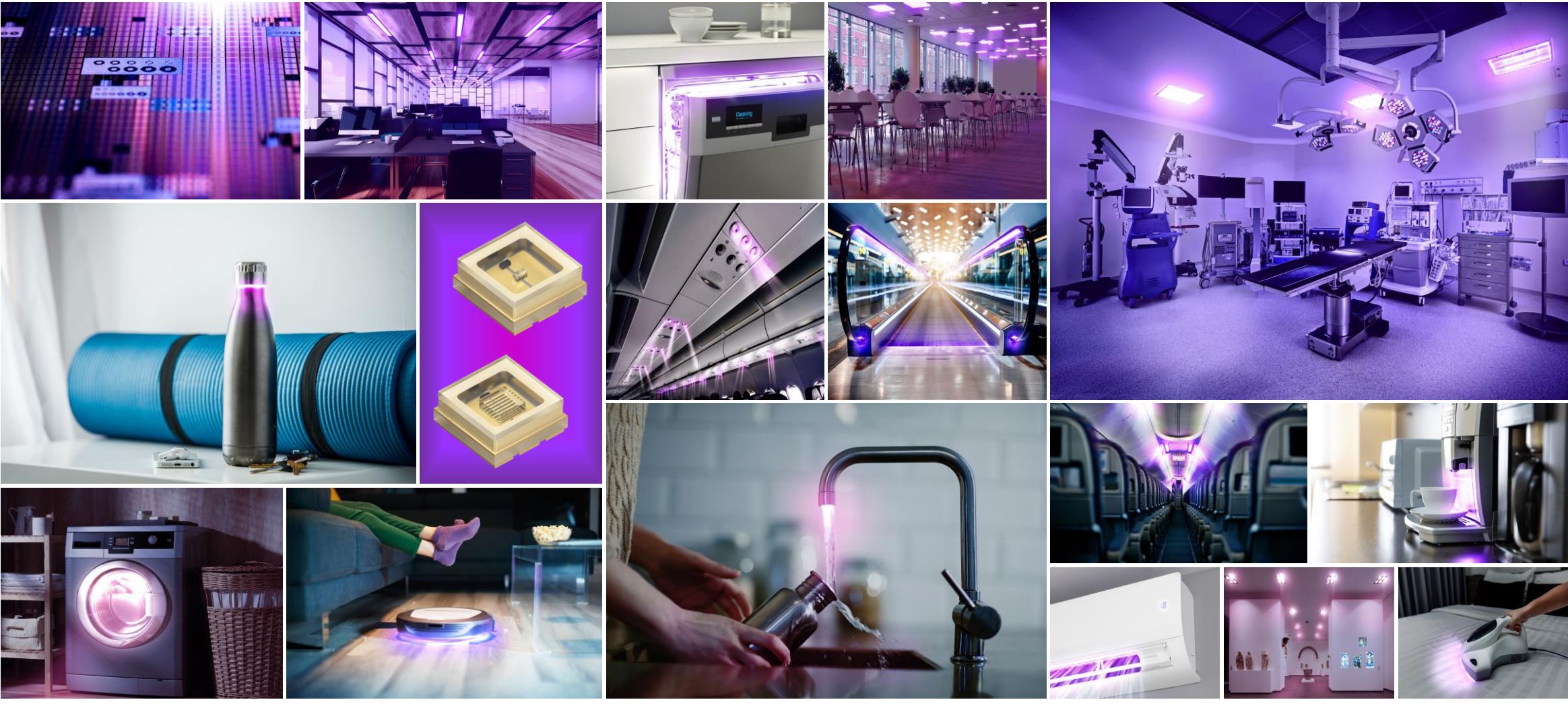


OSLON® UV 3636

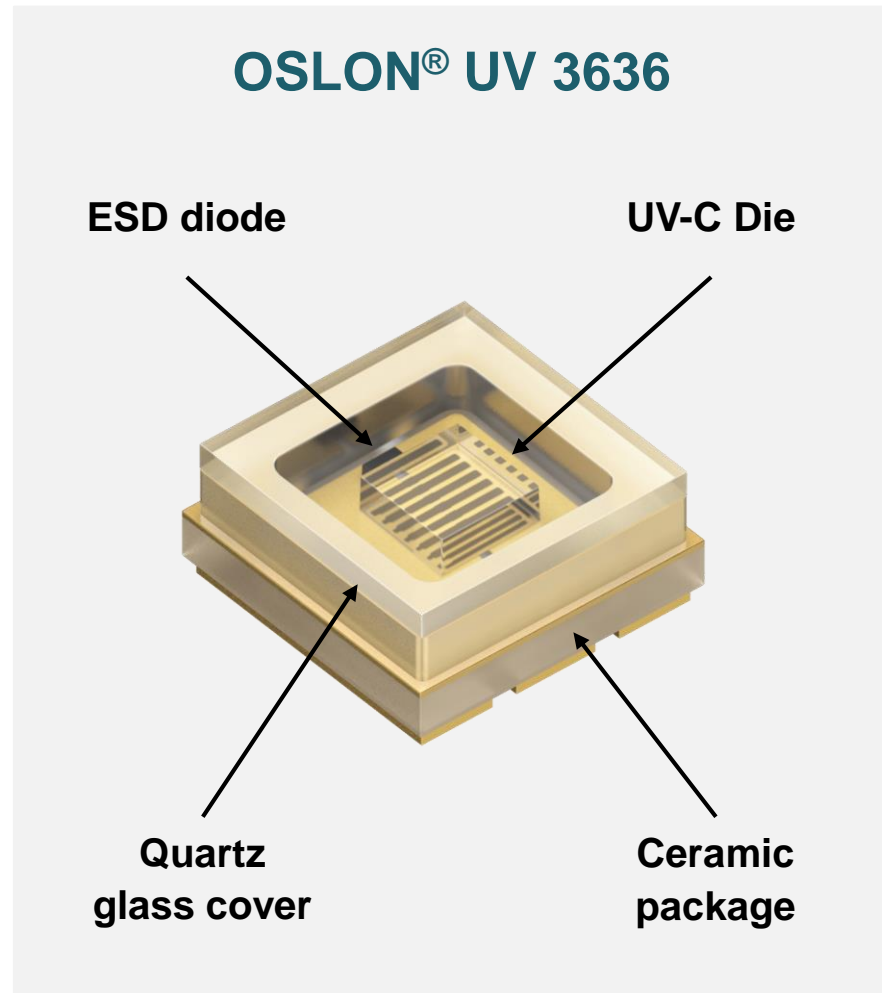
SU CULBN1.VC

SU CULDN1.VC

UV-C solutions powered by OSRAM OS make your everyday life healthier, safer and more pleasant



OSRAM's OSOLON® UV 3636 is a robust & high performance UV-C LED supported by a stable & secure supply chain and service



- **Robust package** with ceramic substrate, gold coating & quartz glass
- **ROHS compliant** & ESD protected



- **High performance** in both low & mid power range
- **Leading product & performance roadmap** in place with **high power coming early 2021**



- **Stable supply chain** from reliable partner
- **Osram OS** with long **history** as **trusted business partner**

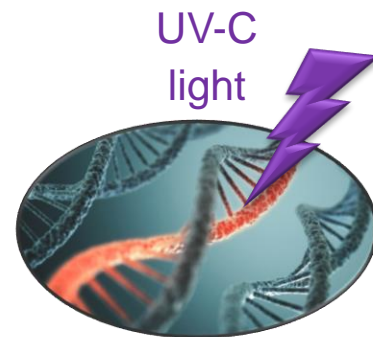
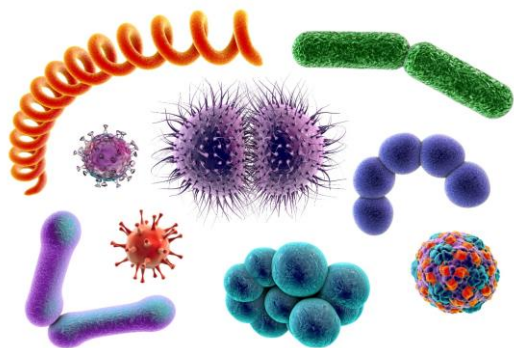


- Strong **technical support** & **application knowledge**
- Existing **cooperation** with **universities** & **funded projects**

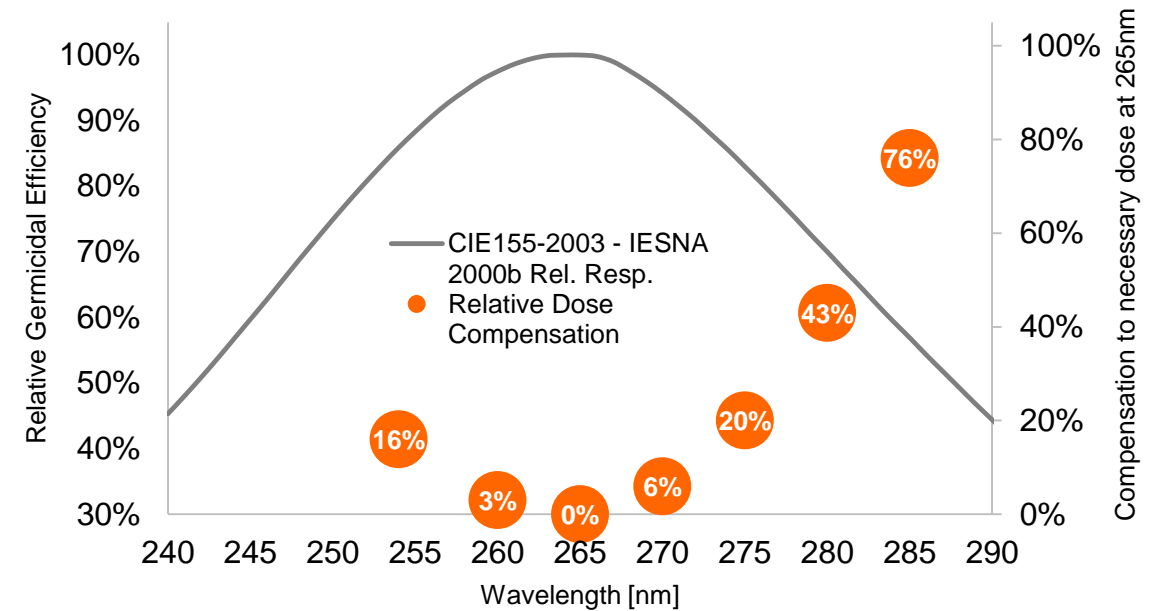
Disinfection by UV-C induced deactivation of reproduction process works best around 275 nm due to LED efficiency & disinfection rate

Disinfection by UV-C is Dose Driven

- **Disinfection by deactivation of reproduction process** (DNA/RNA damage by UV-C photons) of microorganisms
- Each **Microorganisms** requires **different exposure times**
- **Best tradeoff** between **LED efficiency** and **disinfection rate** is at **270-275 nm**



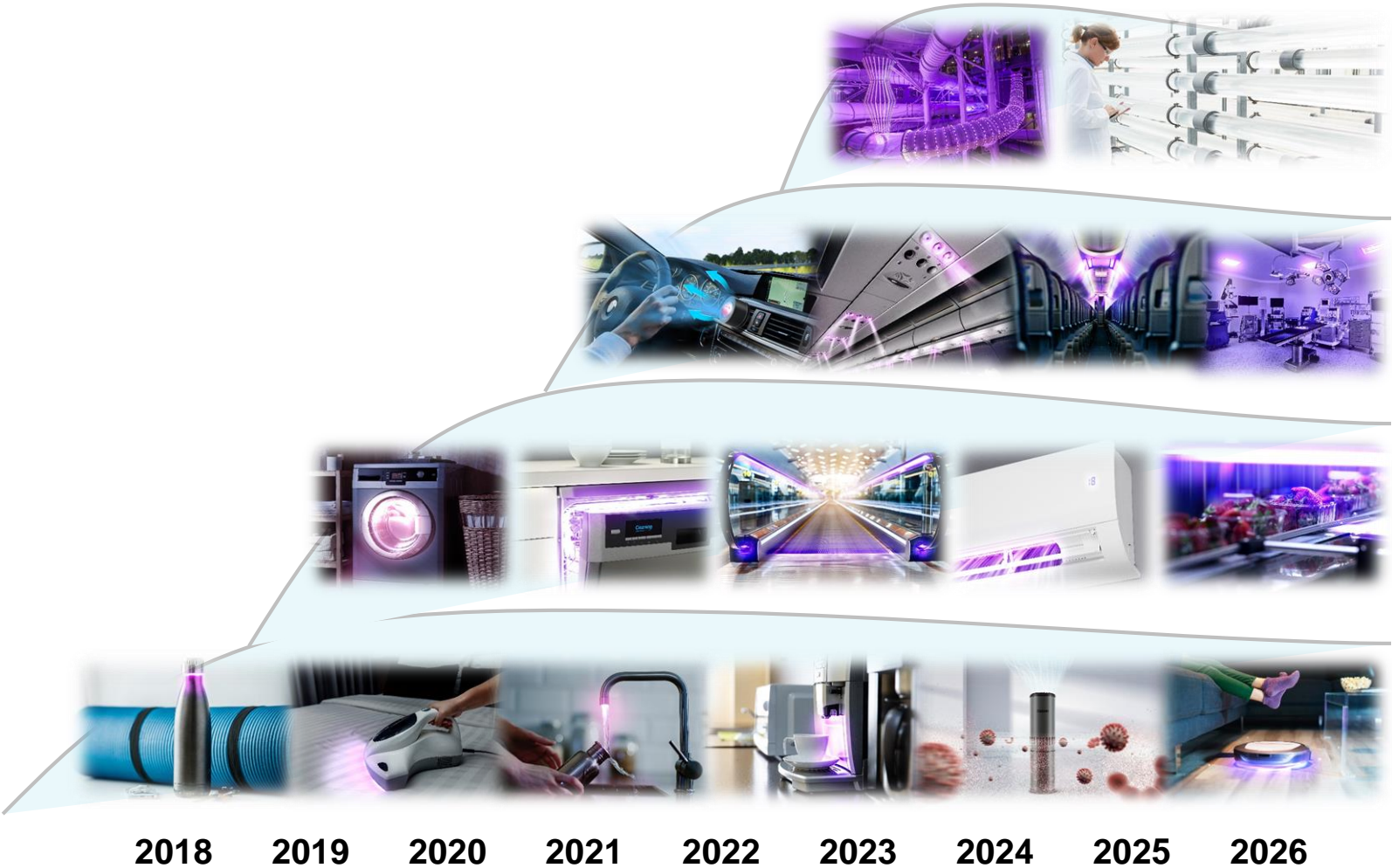
CIE155-2003 Standard Germicidal Response Curve



- **Averaged effectiveness maximum¹⁾** at **~265 nm**
- **16% higher dose** is required at **254 nm** for same effect
- **Significant higher dose** required at **longer wavelength** compared to 265 nm

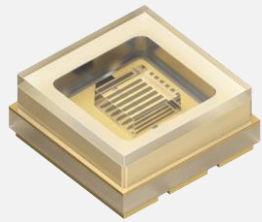
Our UV-C LEDs will increasingly shape the purification and disinfection market, powering a variety of applications you could think of

- 4th wave:**
Mainstream Water Treatment
- 3rd wave:**
Medical & Automotive Products
- 2nd wave:**
Household Goods & Lighting
- 1st wave:**
Consumer Products



OSLON® UV 3636 product features and key figures allow flexible design with the desired optical power for your application

OSLON® UV 3636 for ...



3.6 x 3.6 mm²

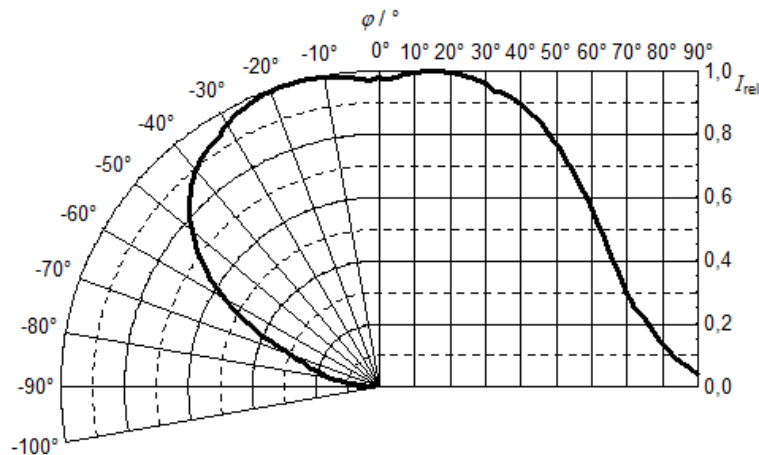
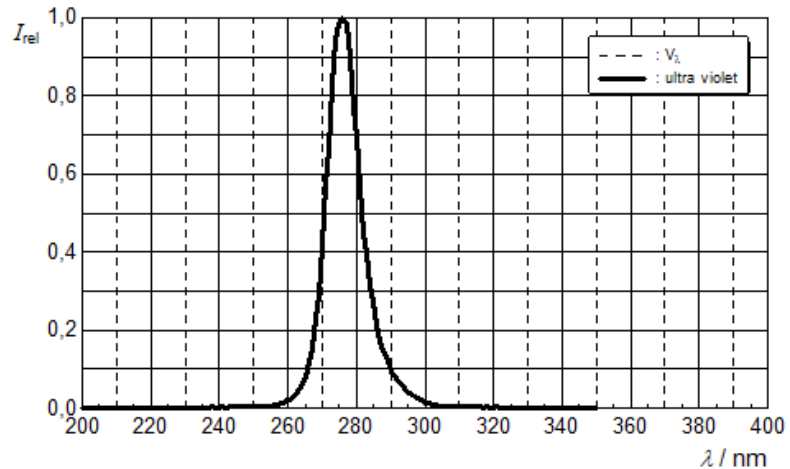
- High radiant flux
- Good reliability
- ROHS compliant
- Common footprint

... Purification and Disinfection



Type	Radiant flux [mW]	Peak wavelength [nm]	Emission angle [°]	Voltage [V]	Binning current [mA]	Max. current [mA]	WPE ¹⁾ [%]
Low power Output SU CULBN1.VC	4.7	275	120	6.0	30	40	2.6
Mid power Output SU CULDN1.VC	42	275	120	5.7	350	500	2.1

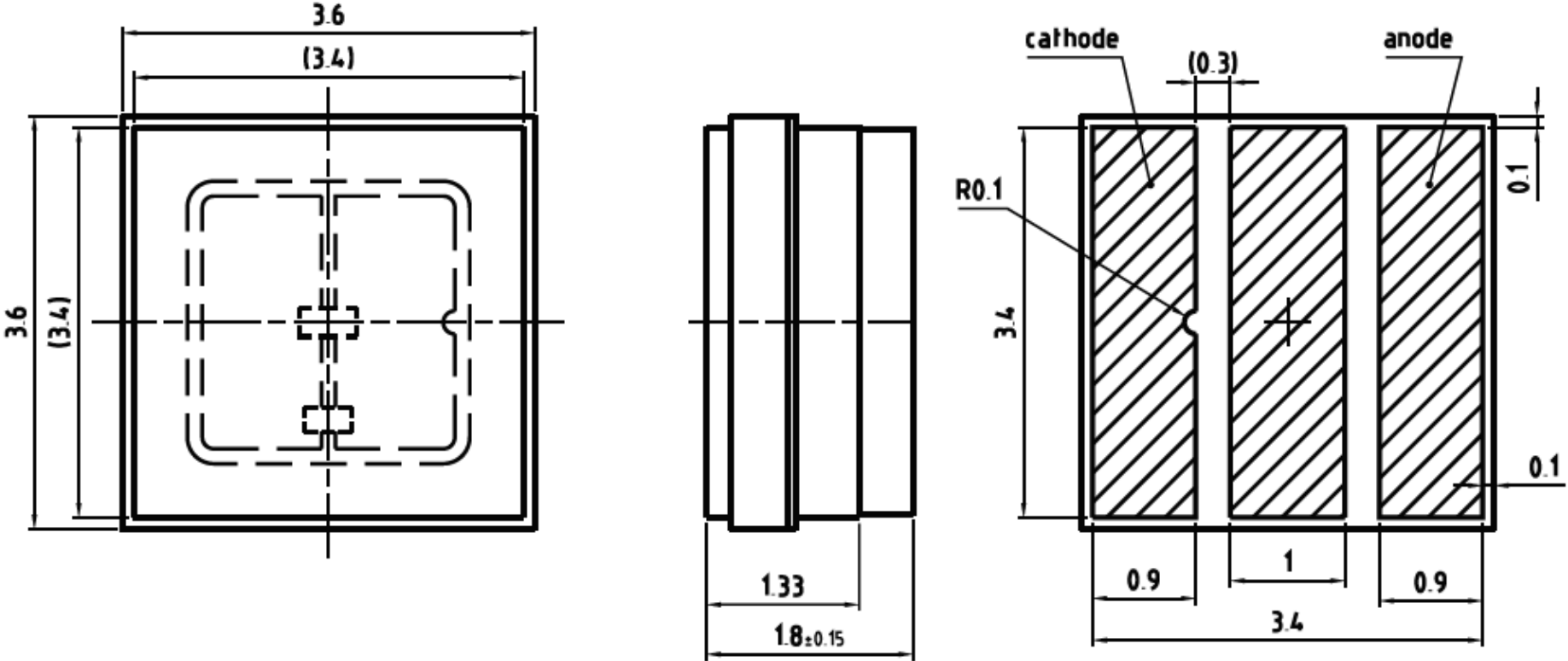
OSLON® UV 3636 emission and characteristics & maximum ratings are designed to provide strong performance in any application



Maximum ratings

	SU CULBN1.VC	SU CULDN1.VC
Forward current	1 – 40 mA	1 – 500 mA
Junction temperature	max. 65 °C	max. 85 °C
Operating temperature	-40 – 60 °C	-40 – 60 °C
ESD withstand voltage ¹⁾	2 kV	5 kV

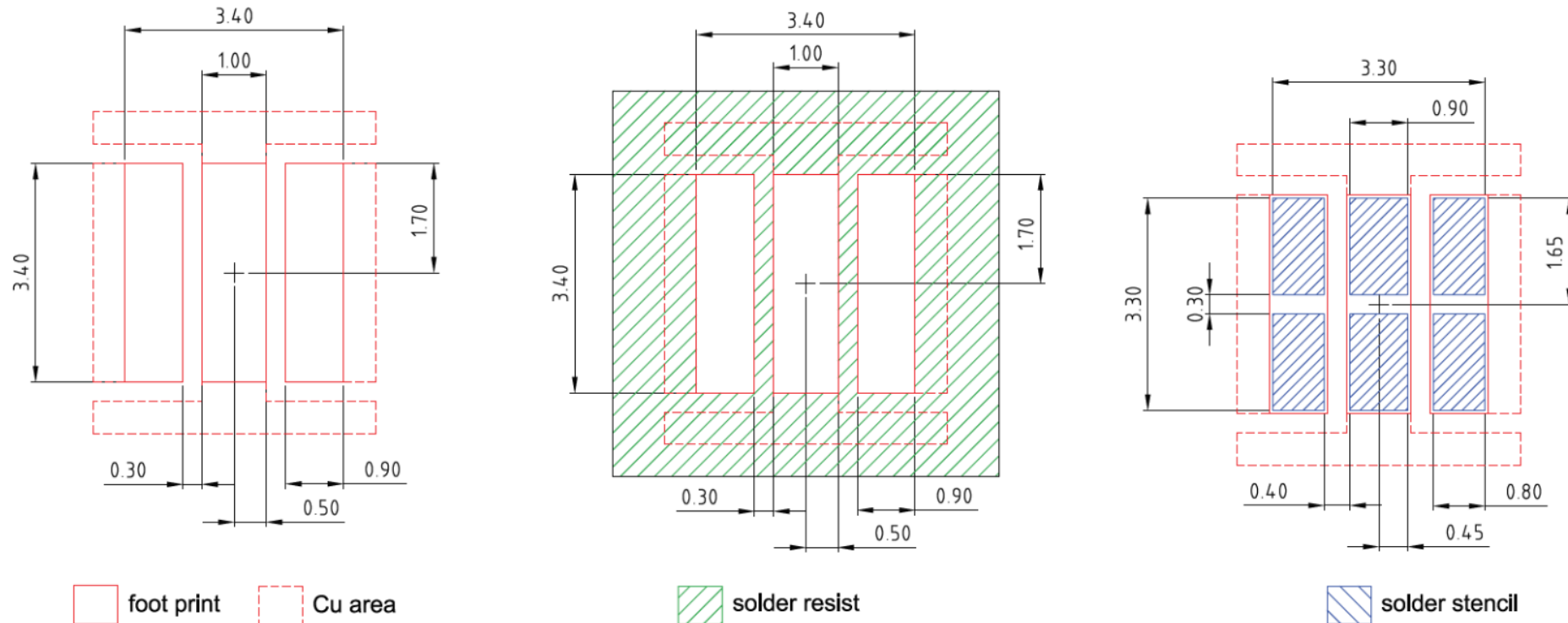
OSLON® UV 3636 LEDs allow flexible design with different optical power output with one common footprint



For further information please refer to the data sheet of SU CULBN1.VC and SU CULDN1.VC

Distinct assembly recommendations to optimally integrate our OSRON® UV 3636 in your design

Recommended solder pad





Thank You!