ifu optronics

UV Large Area Avalanche Photodiode UV LA APD

Avalanche photodiode with enhanced blue violet amplification

Sensor type:	Avalanche photodiode
Abbreviation:	UV LA APD

Geometrical parameters

Socle:	DIP
Chip:	5 mm × 5 mm
Active area:	4.4 mm × 4.4 mm

Electrical parameters

210 V (±2 V)
0.3 nA @20 C (±5 %)
26 nA @20 C (±10 %)
245 pF (±10 %)
42

Environment conditions

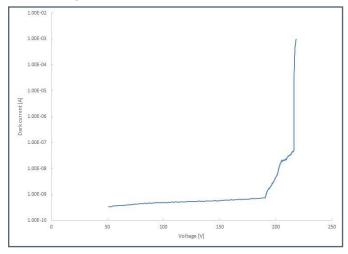
Operation temperature:	0 °C +45 °C
Storage temperature:	-20 °C +60 °C

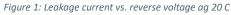
Conformity

The sensor is RoHS-compliant in accordance with European Directive 2011/95/EC (RoHScompliant).

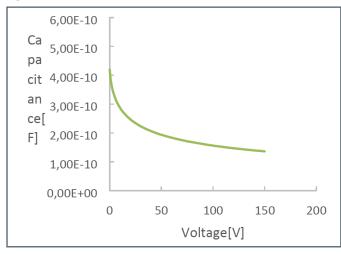
Appendix

The typical leakage current vs. reverse biasing at 20 C is shown in figure 1.

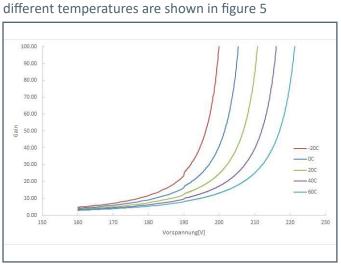




The terminal capacitance vs. reverse biasing is shown in figure 3







The gain vs. reverse voltage for blue light (405 nm) by

Figure 5: Gain vs. reverse voltage by different temperature

The typical spectral gains vs. wavelength for biasing 180 V and 191 V are shown in figure 2

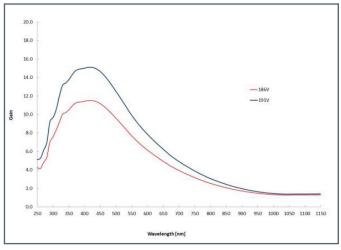


Figure 2: Gain vs. wavelength at 20 C

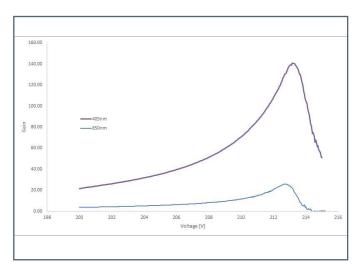


Figure 4: Gain vs. reverse voltage at 20 C