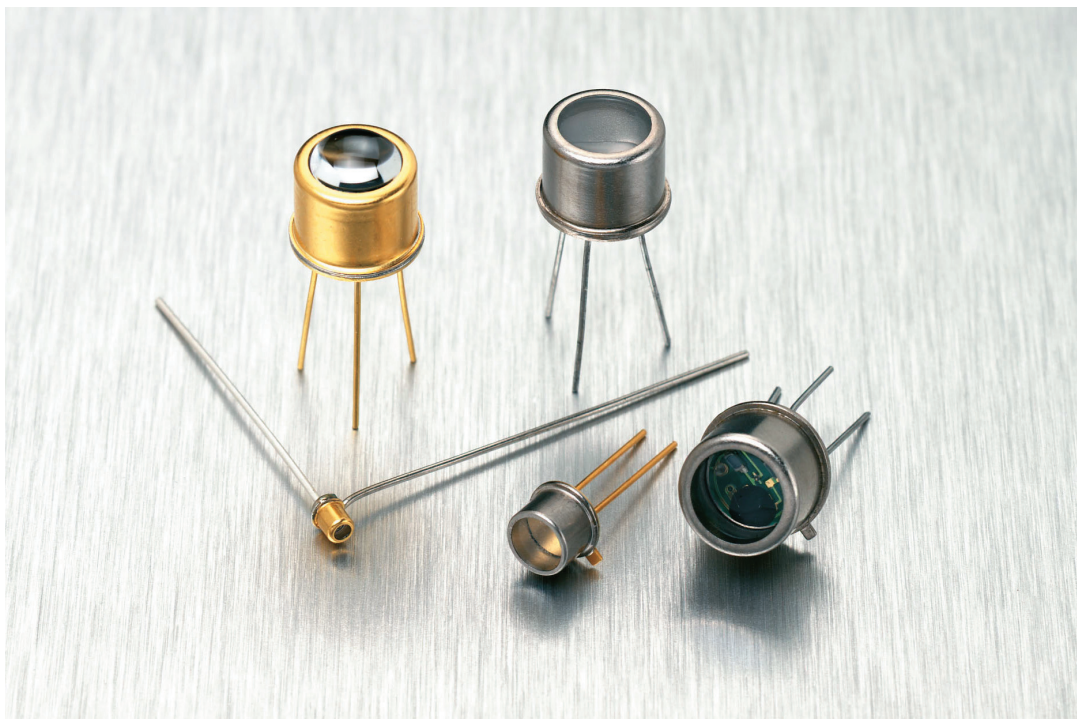


UV 10.T2E.10L - Ultraviolet Detector

Extremely High Sensitivity



Description

The **UV 10.T2E.10L** series is made in **TO-5 housing**, with built-in lens and amplifier. As for spectral response, standard and A2 types are available. PerkinElmer Optoelectronics offers a range of selective sensors for ultraviolet radiation. This sensor series can be equipped with an integrated amplifier and is perfectly suited for the detection of any radiation ranging from 200 nm to 400 nm. High sensitivity, hermetic encapsulation, small dimension (TO-5) and low-cost structure provide suitability for both industrial and consumer applications.

UV detectors from PerkinElmer Optoelectronics are based on silicon-carbide, a material that offers new performance features at reasonable costs. Silicon-carbide provides a unique sensitivity in the spectral range from 200 nm to 400 nm (peak at 280 nm).

Applications

- Burner Controls
- Industrial Controls
- Low-intensity Measurement

Features

- Extremely High Sensitivity
- Housing with Lens
- Built-in Amplifier
- Solar Blind

UV 10.T2E.10L - Ultraviolet Detector Extremely High Sensitivity

Figure 1. Timing Diagram

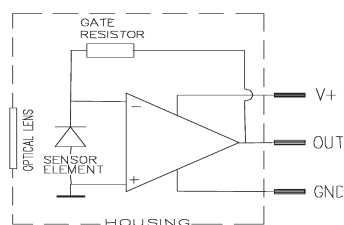


Figure 2. Spectral Curve

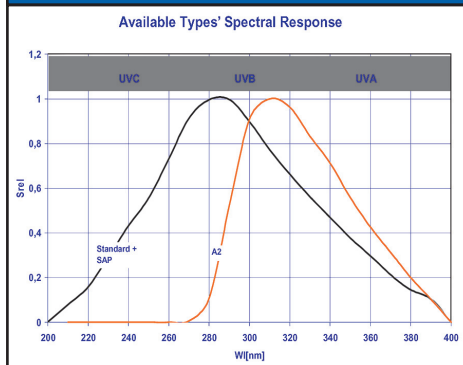


Figure 3.

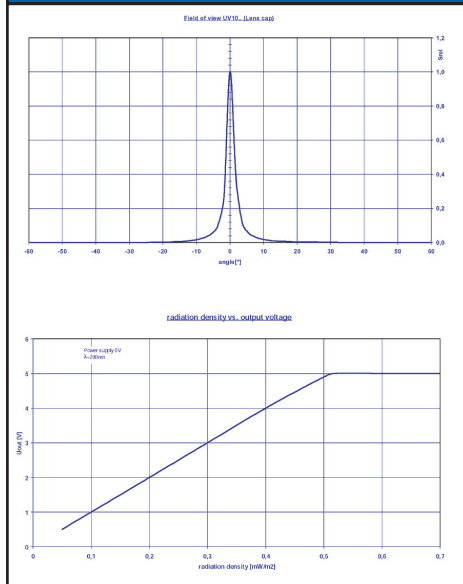


Figure 4. Package Dimensions

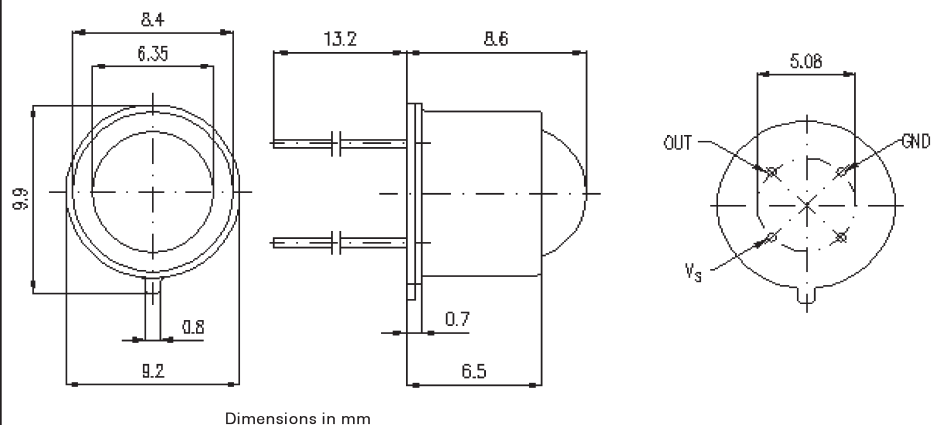


Table 1. UV 10.T2E.10L Specifications

Parameters	Typical	Units	Condition
Radiant sensitivity	1	V/nW	standard window
Responsivity	10	$\lambda/mW/m^2$	standard window
Spectral response	210-380	nm	5% of peak
Wavelength of pk response	280	nm	
Sensitive area	12.56	mm ²	with lens
Selectivity	$>10^{-5}$		400...2000 nm
Operation voltage	2.5...5	V	
Signal output			Rail to Rail
Temperature coefficient	>0.3	%/°C	
Dark offset voltage	>5	mV	
Rise time	10	ms	t (63%)
Storage temperature	-20 to 80	°C	non permanent
Operating temperature	-20 to 80	°C	non permanent
Window transparency	>210	nm	

For more information e-mail us at opto@perkinelmer.com or visit our website at www.perkinelmer.com/optoelectronics

All values are nominal; specifications subject to change without notice.

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