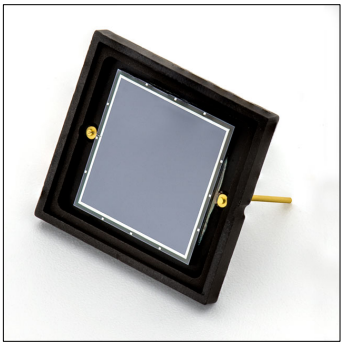
# Electron Detection 100 mm²

# AXUV100G



## FEATURES

- Ideal for Electron Detection
- Large Detection Area
- Protective Cover Plate[3]

## Electro-Optical Characteristics at 25 °C

| Parameters | Test Conditions | Min | Typ | Max | Units |
|---|---|---|---|---|---|
| Active Area | 100 mm x 100 mm | | 100 | | $mm^2$ |
| Responsivity | (see graph on next page) | 0.07 | 0.08 | 0.09 | A/W |
| Shunt Resistance, Rsh | $V_B$ = ± 10 mV | 20 | | | M-ohm |
| Reverse Breakdown Voltage, $V_R$ | $I_R$ = 1 µA | 5 | 10 | | Volts |
| Capacitance, C | $V_R$ = 0 V | | 5 | 15 | nF |
| Rise Time | $V_R$ = 0 V, $R_L$ = 50 Ω | | | 10 | usec |

## Thermal Parameters

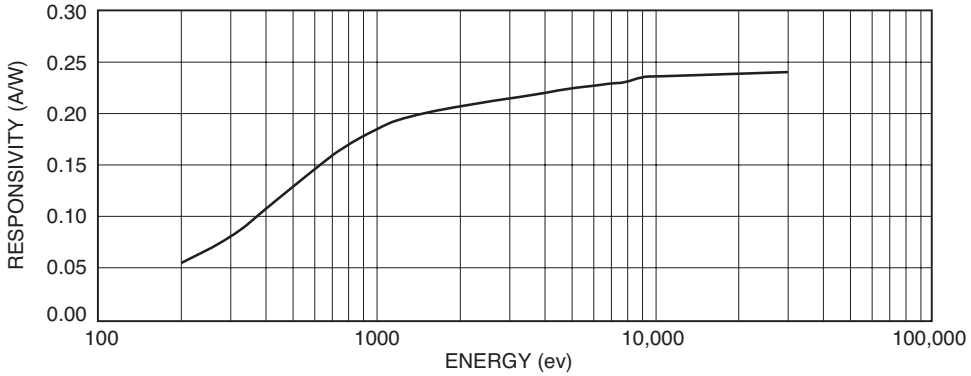
| Storage and Operating Temperature Range | Units |
|---|---|
| Ambient[1] | -10 ° to 40 °C |
| Nitrogen or Vacuum | -20 °C to 80 °C |
| Lead Soldering Temperature[2] | 260 °C |

[1] Temperatures exceeding these parameters may create oxide growth on the active area.
Over time responsivity to low energy radiation and wavelengths below 150 nm will be compromised.

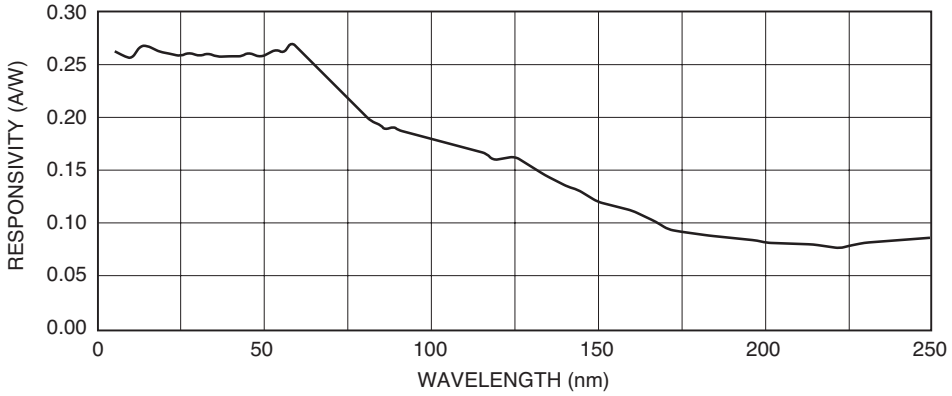
[2] 0.080" from case for 10 seconds.

[3] Shipped with temporary cover to protect the photodiode array and wire bonds.
Review the Application Note, “Handling Precautions for AXUV, SXUV, and UVG Detectors”, prior to removing cover.

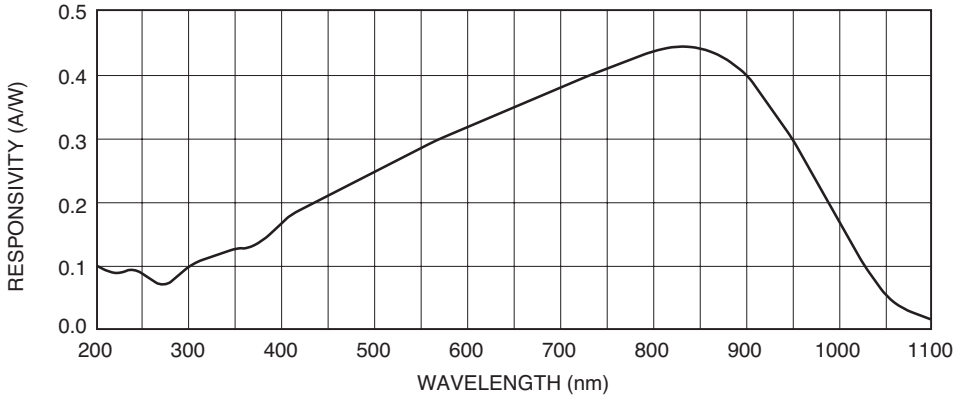
## Typical Electron Response



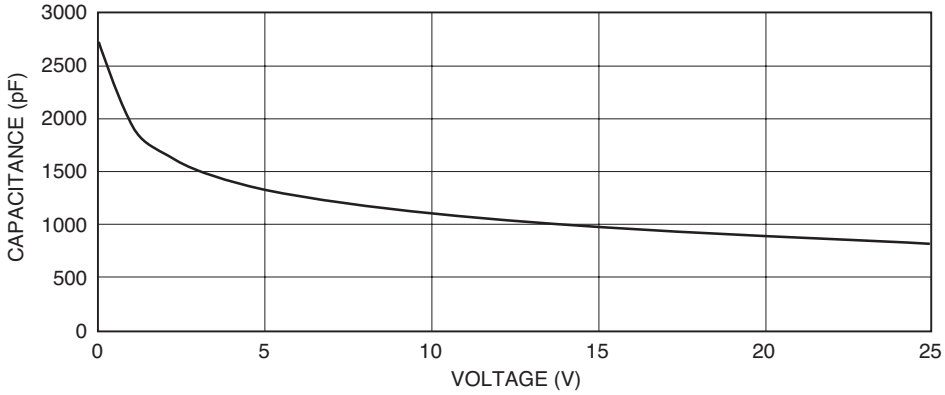

## Typical EUV-UV Photon Response



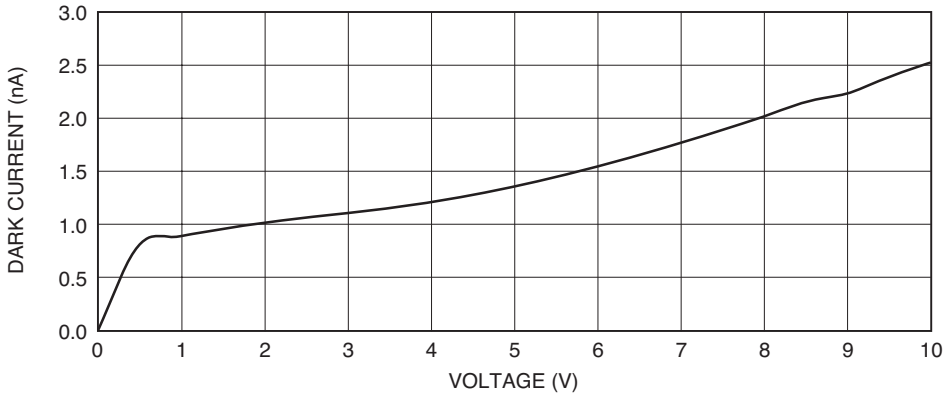

## Typical UV-VIS-NIR Photon Responsivity



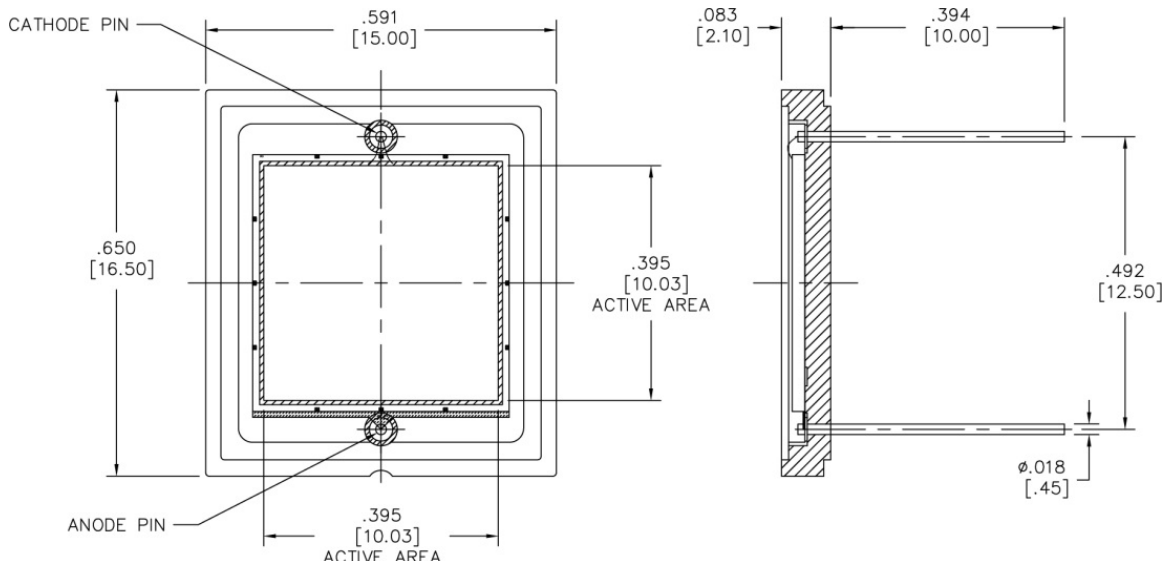
## Capacitance vs. Voltage




## Dark Current vs. Voltage



## Package Information




Dimensions are in inch [metric] units.

Specifications are subject to change without prior notice.

# Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

## Opto Diode:

AXUV63HS1 ODA-6WB-100M ODD-3W-2 ODD-42W SXUV5 AXUV100CS AXUV100G OD-850F ODA-6W-500M ODD-5WBISOL AXUV100TF400 AXUV16ELCS OD-666 SA1037-5M3 AXUV20HS1 OD-850L ODD-1B ODD-5WISOL SXUV100