Photodiode 1 mm²

AXUVHS5

FEATURES

- SMA Connector
- Ideal for Electron Detection
- Ultra-High Speed

Electro-Optical Characteristics at 25°C

Parameters	Test Conditions	Min	Typ	Max	Units
Active Area	1 mm x 1 mm		1		mm^2
Responsivity	(see graphs on next page)				A/W
Reverse Breakdown Voltage, V_R	I_R = 1 µA	55			Volts
Capacitance, C	V_R = 0 V			40	pF
Rise Time	RL = 50 Ω, V_R = 52 V			700	psec
Dark Current	V_R = 52 V		1	10	nA

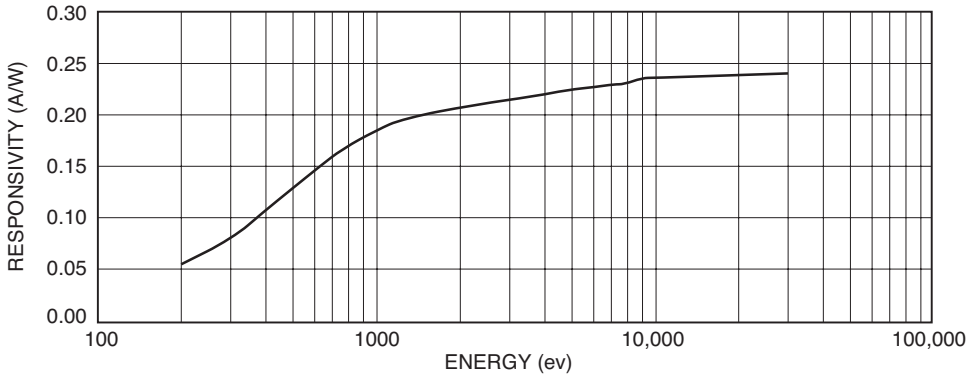
Thermal Parameters

Storage and Operating Temperature Range	Units
Ambient[1]	-10°C to 40°C
Nitrogen or Vacuum	-20°C to 80°C
Maximum Junction Temperature	70°C
Lead Soldering Temperature	N/A

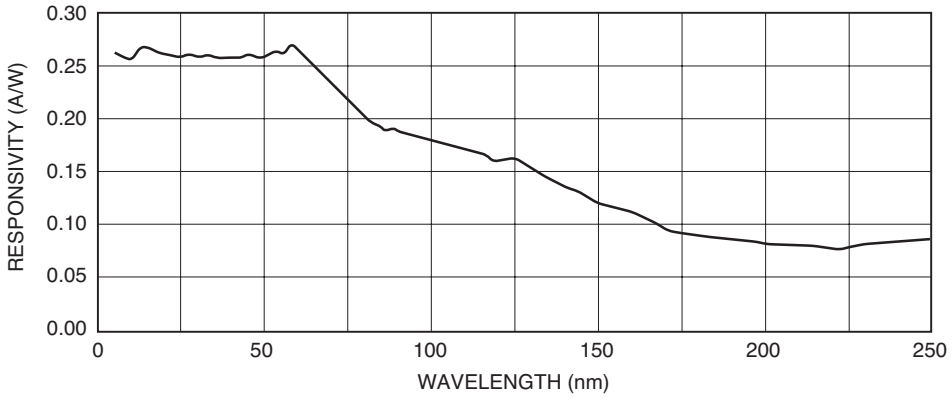
[1] Temperatures exceeding these parameters may create oxide growth on the active area.
Over time responsivity to low energy radiation and wavelengths below 150 nm will be compromised.

Maximum torque of 5 inch/pounds recommended.
Permanent damage will result if higher torque values are used and warranty is voided.

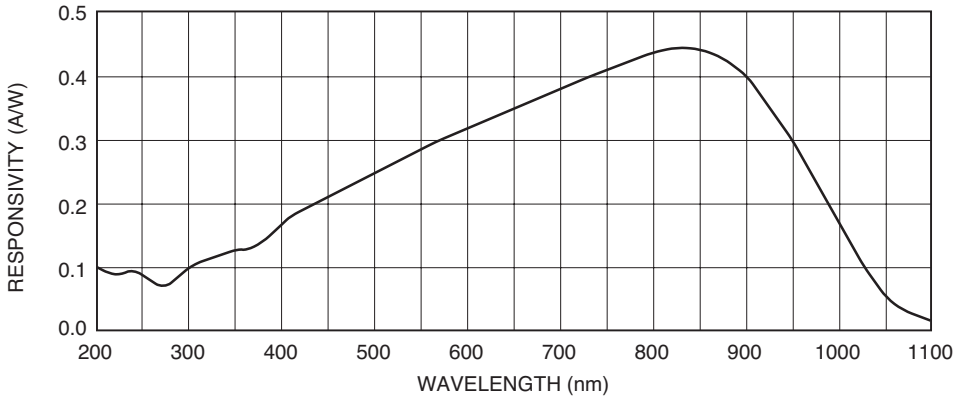
Typical Electron Response



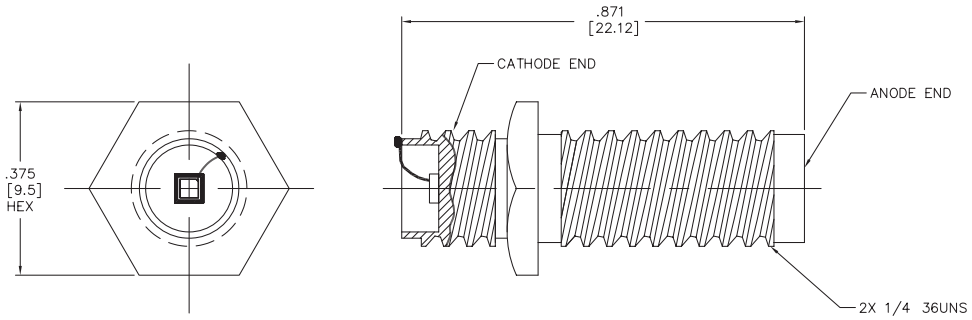
Typical EUV-UV Photon Response



Typical UV-VIS-NIR Photon Responsivity



Package Information



Dimensions are in inch [metric] units.

Specifications are subject to change without prior notice.