

**FEATURES**

- 22 Pin Dual-In-Line Package
- Ideal for Electron Detection
- Protective Cover Plate<sup>3</sup>

**Electro-Optical Characteristics at 25 °C**

Parameters	Test Conditions	Min	Typ	Max	Units
Active Area	0.75 mm x 4.1 mm		3		mm <sup>2</sup>
Responsivity	(see graphs on next page)				A/W
Reverse Breakdown Voltage, V <sub>R</sub>	I <sub>R</sub> = 1 μA	20	25		Volts
Capacitance, C	V <sub>R</sub> = 0 V			1	nF
Rise Time	V <sub>R</sub> = 0 V			200	nsec
Shunt Resistance (per element)	V <sub>f</sub> = ± 10 mV	100			MOhms

**Thermal Parameters**

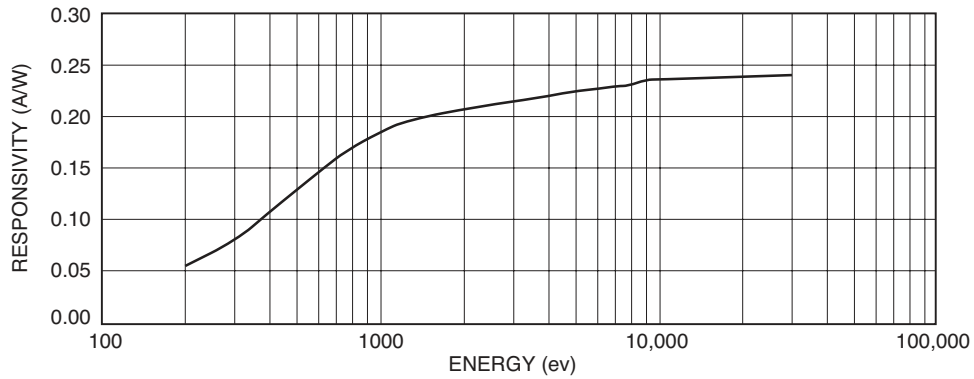
Storage and Operating Temperature Range	Units
Ambient <sup>1</sup>	-10°C to 40°C
Nitrogen or Vacuum	-20°C to 80°C
Lead Soldering Temperature <sup>2</sup>	260°C

<sup>1</sup> 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.

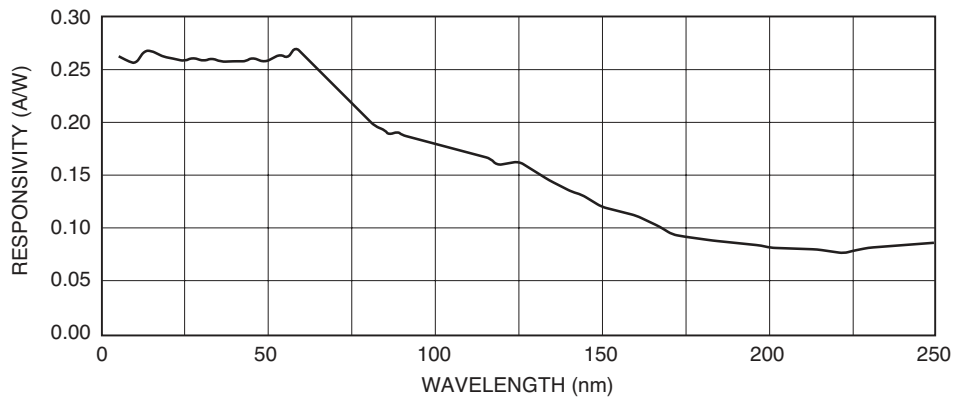
<sup>2</sup> 0.080" from case for 10 seconds.

<sup>3</sup> 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.

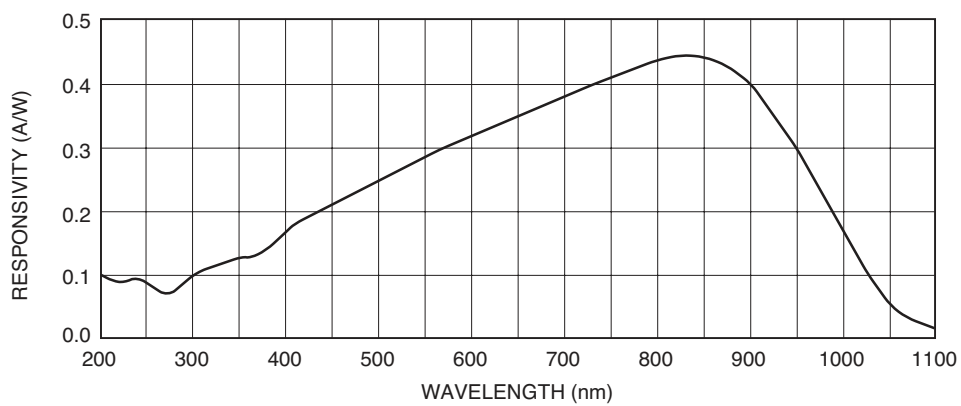
**Typical Electron Response**



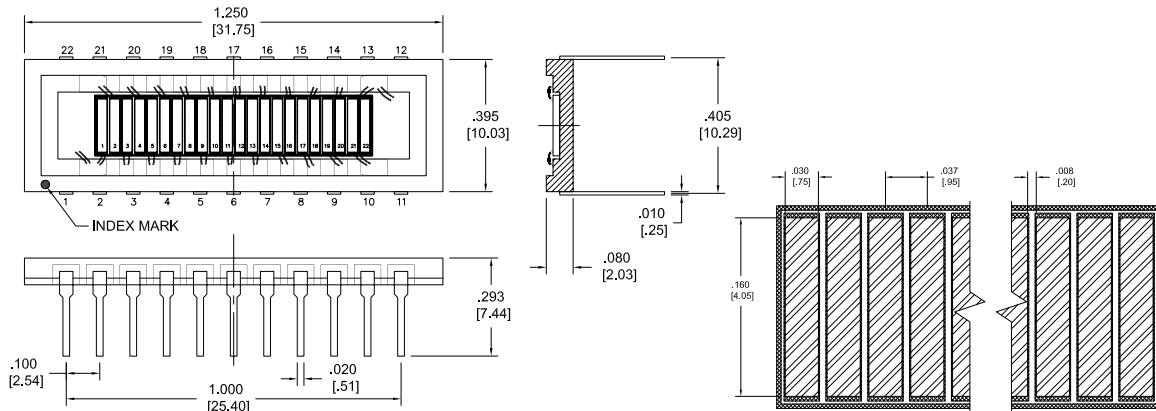
**Typical EUV-UV Photon Response**



**Typical UV-VIS-NIR Photon Responsivity**



**Package Information**



Dimensions are in inch [metric] units.

**Pin Description**

Pins	Connection	Pins	Connection
1, 12	Common Anode	13	Cathode Element 20
n/a	Cathode Element 1	14	Cathode Element 18
2	Cathode Element 3	15	Cathode Element 16
3	Cathode Element 5	16	Cathode Element 14
4	Cathode Element 7	17	Cathode Element 12
5	Cathode Element 9	18	Cathode Element 10
6	Cathode Element 11	19	Cathode Element 8
7	Cathode Element 13	20	Cathode Element 6
8	Cathode Element 15	21	Cathode Element 4
9	Cathode Element 17	22	Cathode Element 2
10	Cathode Element 19	n/a	Cathode Element 22
11	Cathode Element 21		

Specifications are subject to change without prior notice.