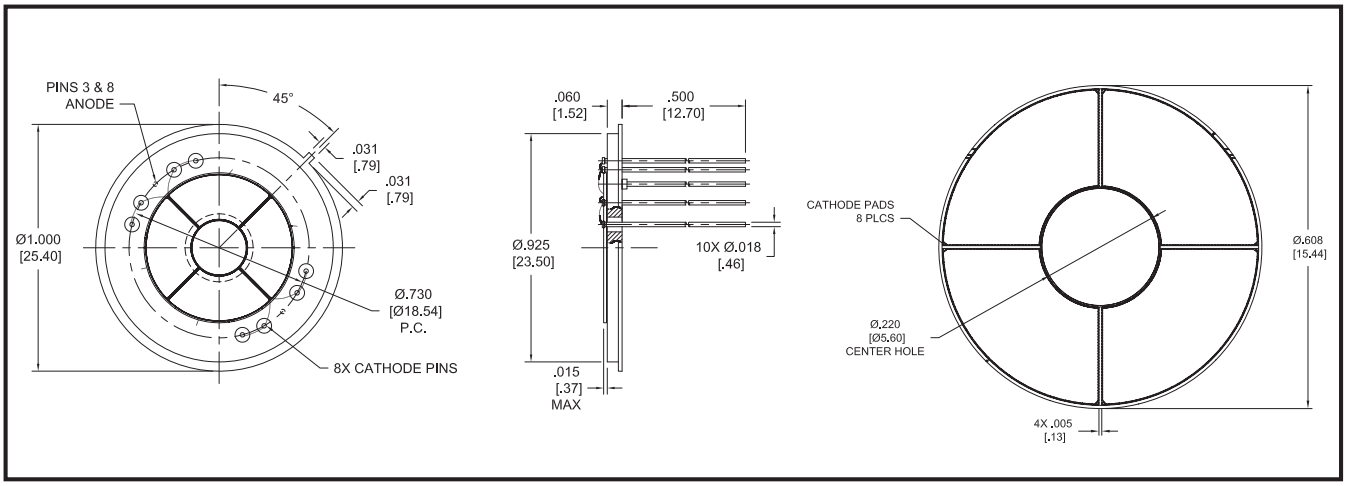
QUAD ELECTRON DETECTOR 15 mm^2 AXUVPS7



Dimensions are in inch [metric] units.

FEATURES

- Ideal for electron detection
- Circular active area
- 100% internal QE

ELECTRO-OPTICAL CHARACTERISTICS AT 25°C (PER ELEMENT)

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Active Area			15		mm^2
Responsivity, $\mathcal{R}$	(see graphs on the next page)	0.07	0.08	0.09	A/W
Shunt Resistance, RsH	V_R = ±10mV	10			MOhms
Reverse Breakdown Voltage, V_R	I_R = 1μA	5			Volts
Capacitance, C	V_R = 0V		1.5		nF
Rise Time	V_R = 2V, R_L = 50Ω			2	usec

THERMAL PARAMETERS

STORAGE AND OPERATING TEMPERATURE RANGE	
Ambient[1]	-10° TO 40°C[1]
Nitrogen or Vacuum	-20°C TO 80°C
Maximum Junction Temperature	70°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 150nm will be compromised.

[2]0.080" from case for 10 seconds.

Shipped with temporary cover to protect photodiode and wire bond.
Review Opto Diode “Handling Precautions for IRD Detectors” prior to removing cover.

OPTO DIODE CORP.
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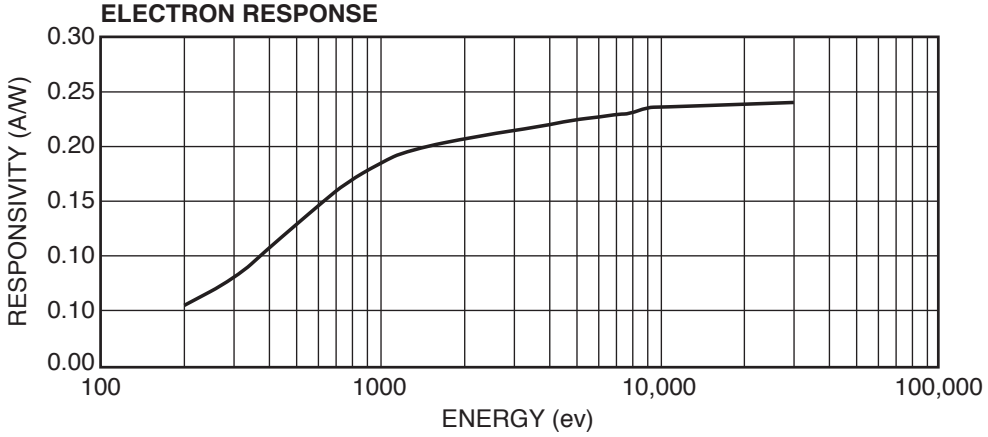
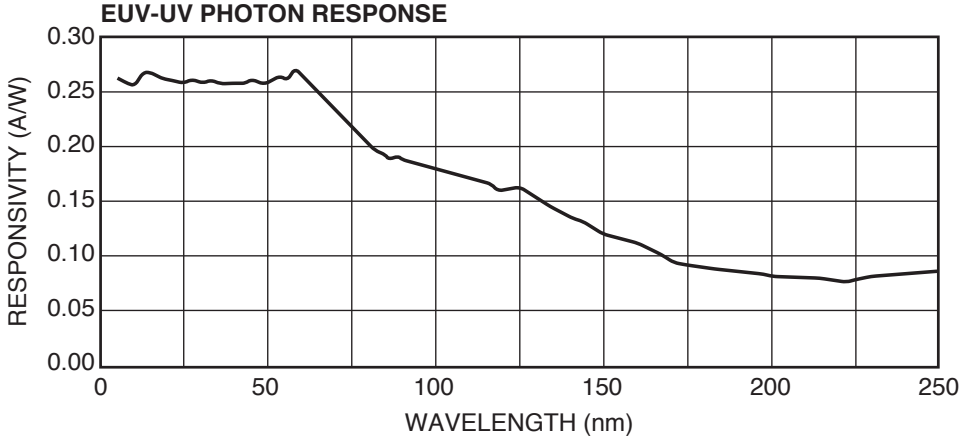
Revision February 26, 2013

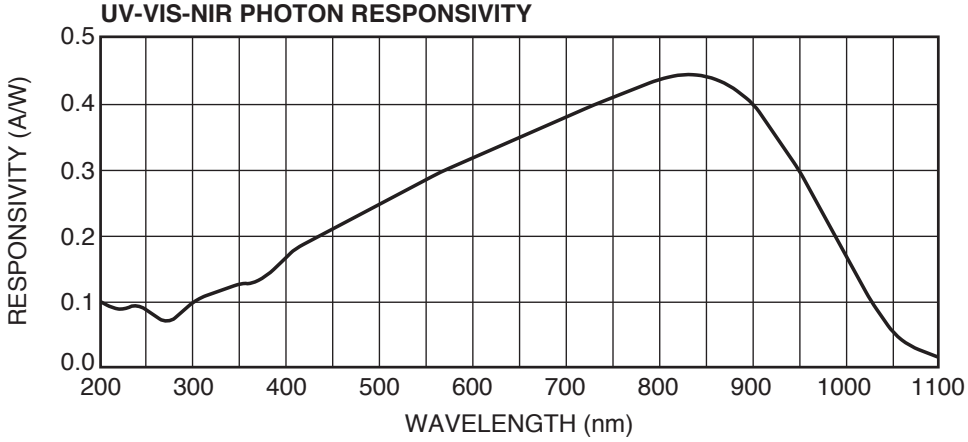
ELECTRON RESPONSE



EUV-UV PHOTON RESPONSE



UV-VIS-NIR PHOTON RESPONSIVITY



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