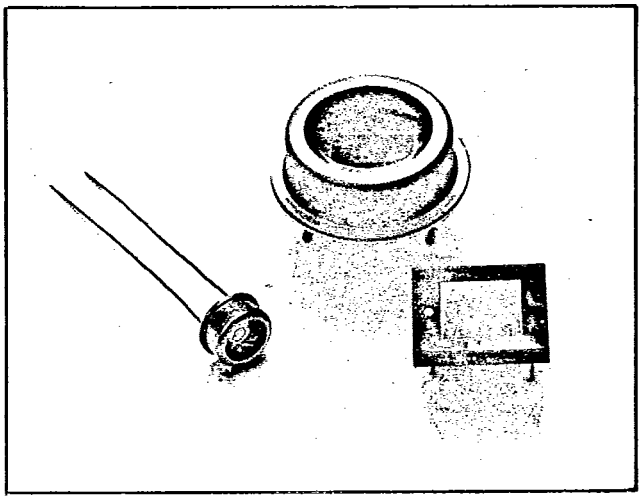
UV SILICON PHOTODIODE

Specifications subject to change without notice for product revisions and improvements.

UV Silicon Photodiode

Recent advancements in Advanced Detector Corporation have made it possible to offer a photodiode designed specifically for use in the deep UV region of the spectrum. Tests performed by ADC and other respected laboratories have proven that ADC UV diodes have the highest reliability and stability of any devices now available.

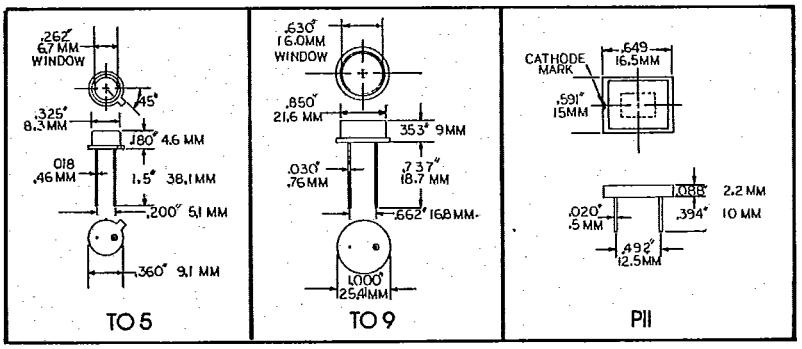


Features

Custom photodiodes, Hi-Rel devices, special selections, custom multielement arrays and assemblies using this new UV technology are all available at low prices with a fast turnaround.

Applications

- Spectrometers
- Medical Instrumentation
- Color Meters
- U.V. Chemical Analysis
- Densitometers
- Florescent Analysis
- U.V. Exposure Meters
- Laboratory Standards



Type No.	Photosensitive Surface: Size (mm)	Photosensitive Surface: Effective Area (mm^2)	Package (mm)	Sensitivity Characteristics (@ 25°C): Spectral Response: Range (nm)	Spectral Response: Peak Wavelength (nm)	Typical Radiant Sensitivity (A/W): Peak Wavelength	Hg line (254nm)	He-Ne Laser (633nm)	GaAs LED (930nm)	Typical Noise Characteristics: NEP typ. (W/Hz ½)	D* typ. (cm√Hz/W)
ADC-UVII	10.0×10.0	100.0	15×16.5	190 1150	925±50	.51	.12	.36	.51	2.5×10^{-14}	4.0×10^{13}
*ADC-UVIIQ	10.0×10.0	100.0	15×16.5	200 1150	925±50	.47	.09	.33	.47	2.8×10^{-14}	3.6×10^{13}
ADC-UV09M	10.0×10.0	100.0	TO9	200 1150	925±50	.43	.08	.31	.43	3.0×10^{-14}	3.3×10^{13}
ADC-UV05M	1.1 Dia.	3.6	TO5	200 1150	925±50	.43	.08	.31	.43	1.4×10^{-14}	2.3×10^{12}

Type No.	Characteristics (@ 25°C): Dark Current @V_R=10mV (Id_R) max. (pA)	Temperature Dependence of Dark Current (%/°C)	Shunt Resistance (Rsh) @V_R=10mV: min. GΩ	Shunt Resistance (Rsh) @V_R=10mV: typ. GΩ	Junction Capacitance (Cj)@V_R=0V typ.	Rise Time (tr) @V_R=0V typ. µsec	Absolute Maximum Range: Reverse Voltage (VR max.) (V)	Temperature Rating: Operating (°C)	Temperature Rating: Storage (°C)
ADC-UVII	200	9%	0.05	0.5	1900	<5	7	−20—+59	−20—+80
*ADC-UVIIQ	200	9%	0.05	0.5	1900	<5	7	−20—+59	−20—+80
ADC-UV09M	200	9%	0.05	0.5	1900	<5	7	−20—+59	−20—+80
ADC-UV05M	40	9%	0.25	2.5	100	<5	20	−20—+59	−20—+80

*ADC-UVIIQ is supplied with a quartz window.

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