



Series 8: High Speed / High Gain at Low Bias Voltage Silicon Avalanche Photodiodes

Pacific Silicon Sensor's APD product line contains two series of devices, -8 and -9. Each series is designed and produced to meet certain specifications and design goals. We offer a variety of active area sizes and packaging choices in each series. If you have additional requirements or design parameters to meet, contact us to see if your needs can be addressed on an application specific (custom) basis. We are the world leader in custom APD devices, and encourage you to phone or email us to discuss your APD application.

Whatever your light sensing problem...
Make Pacific Silicon Sensor your solution!

Table with 13 columns: Part Number, Active Area (Dia (mm), mm²), Dark Current @ M = 100 (Typ nA, Max nA), Capacitance Typ pF, Break Down @ Id = 2µA V, Cut-off Frequency (-3dB) GHz, Rise Time ns, Optimum Gain, Gain, Noise Current pA/Hz¹/² @ M = 100, Pkg. Rows include AD-100-8, AD-230-8, AD-500-8, AD-800-8, AD-1100-8, AD-1900-8, AD-2500-8.

- AD230-2.3G-TO5: APD Hybrid module with integral TIA.
AD500-1.3G-TO5: APD Hybrid module with integral TIA.
APD50: A Si APD and low noise preamplifier module, with built-in HV power supply and temperature compensation.

Responsivity for all Series -8 APD's is 0.45 A/W @ 780nm (M = 1).
Temperature Coefficient of Vbr for all Series -8 APD's is 0.45V/°C.
Test conditions: 22°C: All values typical.

