

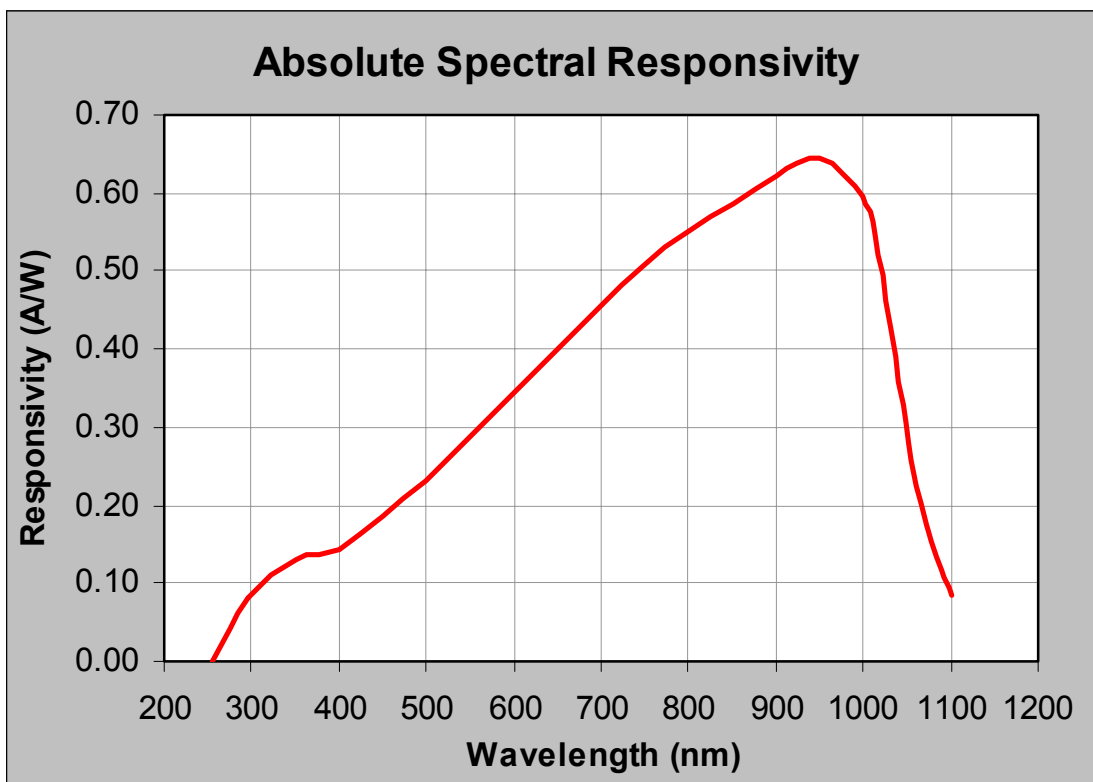
# PHOTODIODE ARRAYS

## SPECIFICATIONS

Part Number	Number of Elements	Element Dimensions (mm)	Pitch (mm)	Responsivity	Shunt Resistance <sup>1</sup>	Dark Current <sup>1</sup> at 10V	Capacitance at 0V	Uniformity <sup>2</sup>	NEP <sup>3</sup>
				Min. (A/W)	Min. (M $\Omega$ )	Max. (nA)	Max. (pF)	Typ. (%)	Typ. (W/ $\sqrt{\text{Hz}}$ )
SD 219-51-03-301	12	0.965 x 2.01	1.01	0.35 @ 633nm	600	2.7	10	$\pm 5$	$1.4 \times 10^{-14}$
SD 484-52-05-301	32	0.508 x 5.89	0.635	0.10 @ 365nm 0.22 @ 500nm 0.33 @ 700nm	50	0.5	500	$\pm 5$	$5.2 \times 10^{-14}$

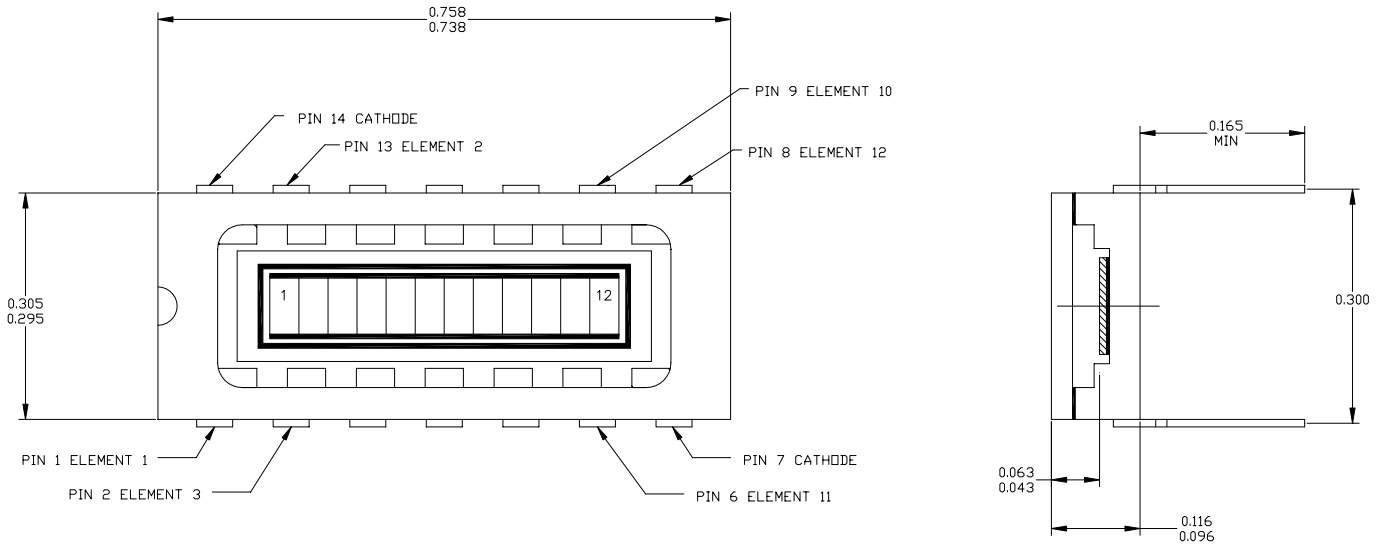
\* All specifications are per element. All values at 23°C

- Dark Current and Shunt Resistance vary with temperature as follows; for  $T \neq 23^\circ\text{C}$ ,  $I_{DT} = I_{D23} * 1.09^{\Delta T}$ ,  $R_{SHT} = R_{SH23} * 0.9^{\Delta T}$ , where  $\Delta T = (T - 23)$  and  $I_{D23}$  and  $R_{SH23}$  are values at 23°C.
- Element to element responsivity uniformity is measured at the longest wavelength specified for responsivity of each part.
- Test conditions are  $V_B = 10\text{mV}$ , and highest responsivity value listed in the table.



# Dimensional Outlines

**SD 219-51-03-301**



**SD 484-52-05-301**

