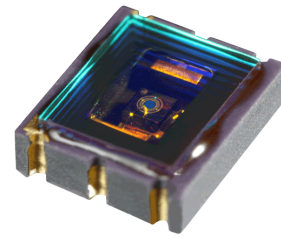


AD230-8 LCC6.1LC

High Gain Avalanche Photodiode

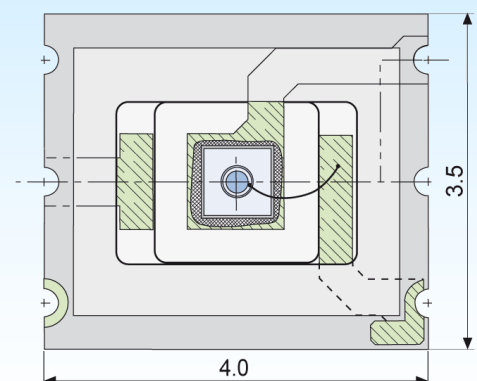
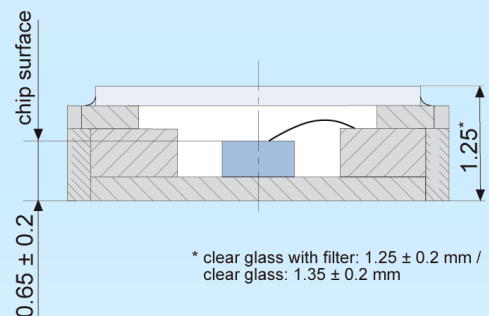
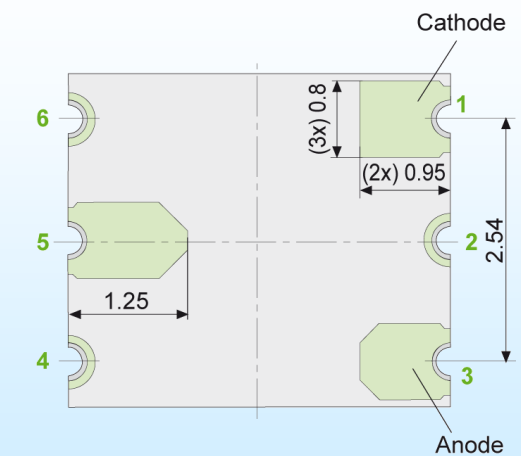
Special characteristics:

- high gain at low bias voltage
- fast rise time
- 230 μm diameter active area
- low capacitance
- low cost

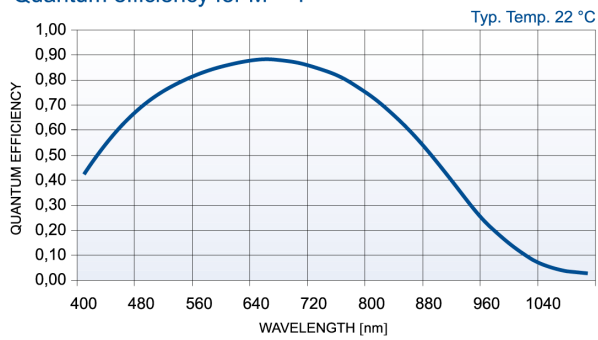


Parameters:	AD230-8 LCC6.1LC
Active Area	0,04mm ² dia 0,23mm
Dimensional outline	
window material	clear glass
operating temperatur	-20... +70 °C
storage temperatur	-40...+100 °C
Spectral Responsivity (A/W) (800 nm, at M=100)	min. 45 typ. 50
Dark current (nA) (at M=100)	typ. 2 max. 5
Breakdown voltage (V)	120 - 200
Capacitance (pF) at M=100	typ. 1,2*
Rise time (ns) at M=100	typ. 0,18
Temp. coefficient Ubr (V/K)	typ. 0,45
Cut-off frequency (GHz) (-3 dB)	typ. 2,0
N.E.P (w/Hz ^{1/2}) (at M=100, 800 nm)	1*10 ⁻¹⁴
Optimum Gain	50 - 60
Max. Gain	> 200
Excess Noise factor at M=100	2,2
Excess Noise index at M=100	0,2
Noise current at M=100 (pA/Hz ^{1/2})	typ. 1

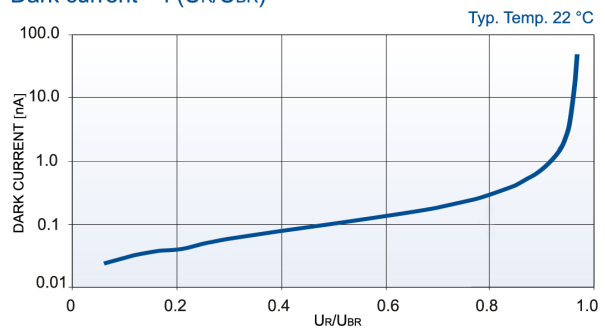
Package (LCC6.1LC):



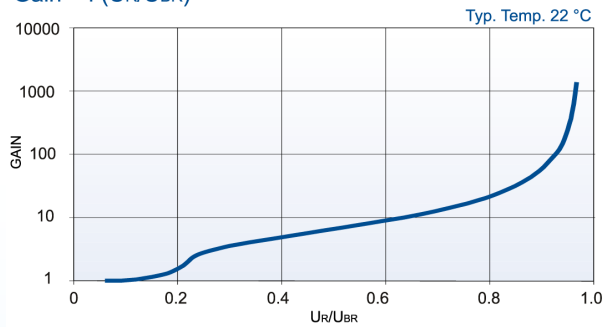
Quantum efficiency for M = 1



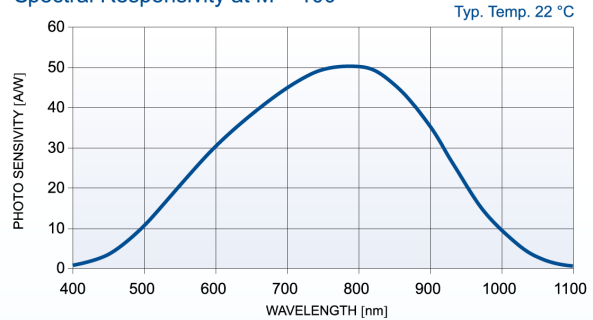
Dark current = f (U_R/U_{BR})



Gain = f (U_R/U_{BR})



Spectral Responsivity at M = 100



Disclaimer: Due to our policy of continued development, specifications are subject to change without notice.

measurement conditions:

* Setup of photo current 1.0 nA at M=1 and irradiation by a LED (680 nm, 60 nm bandwidth).
Increase the photo current up to 1 μA, (M=100) by internal multiplication due to an increasing bias voltage.

RoHS compliant

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