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C30703FH Avalanche Photodiode Interim Datasheet

Mechanical Characteristics (see pages 2 and 3)

Photosensitive Surface:

Shape: Square
Active Area: 100 mm2
Useful Dimensions: 10 x 10 mm
Gold metallization on edge of active area

Assembly:

• Flat Pack as per drawings: can be modified if required.

Biasing:

• Usual operating conditions are: negative bias applied to anode, signal taken at cathode. However, positive bias can be applied to cathode, and the cathode AC coupled to the preamplifier input

Electrical Characteristics (typical)

Responsivity at 900 nm
Dark Current
Spectral noise density
55A / W
250 nA
0.5 pA / √Hz

• Capacitance, 100pF (100µm effective thickness) 60 pF (200µm effective thickness)

• Rise Time 5 ns

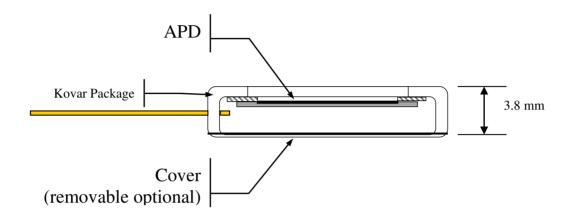
N.E.P. at 900 nm
23fW / √Hz
Also see page 3 for typical x-ray response.

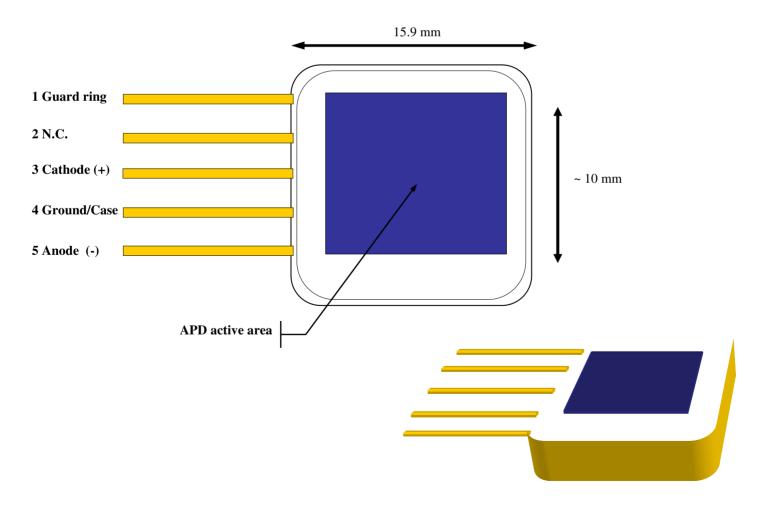


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Typical Characteristics. C30703FH Avalanche Photodiode Family

