



## C30626 family Avalanche Photodiode Datasheet

### Mechanical Characteristics (see pages 2 and 3)

#### Photosensitive Surface:

- Shape: Square
- Active Area: 25 mm<sup>2</sup>
- Useful Dimensions: 4.7 x 4.7 mm
- Gold metallization on edge of active area

#### Assembly:

- Flat Pack or Ceramic as per drawings: can be modified if required.

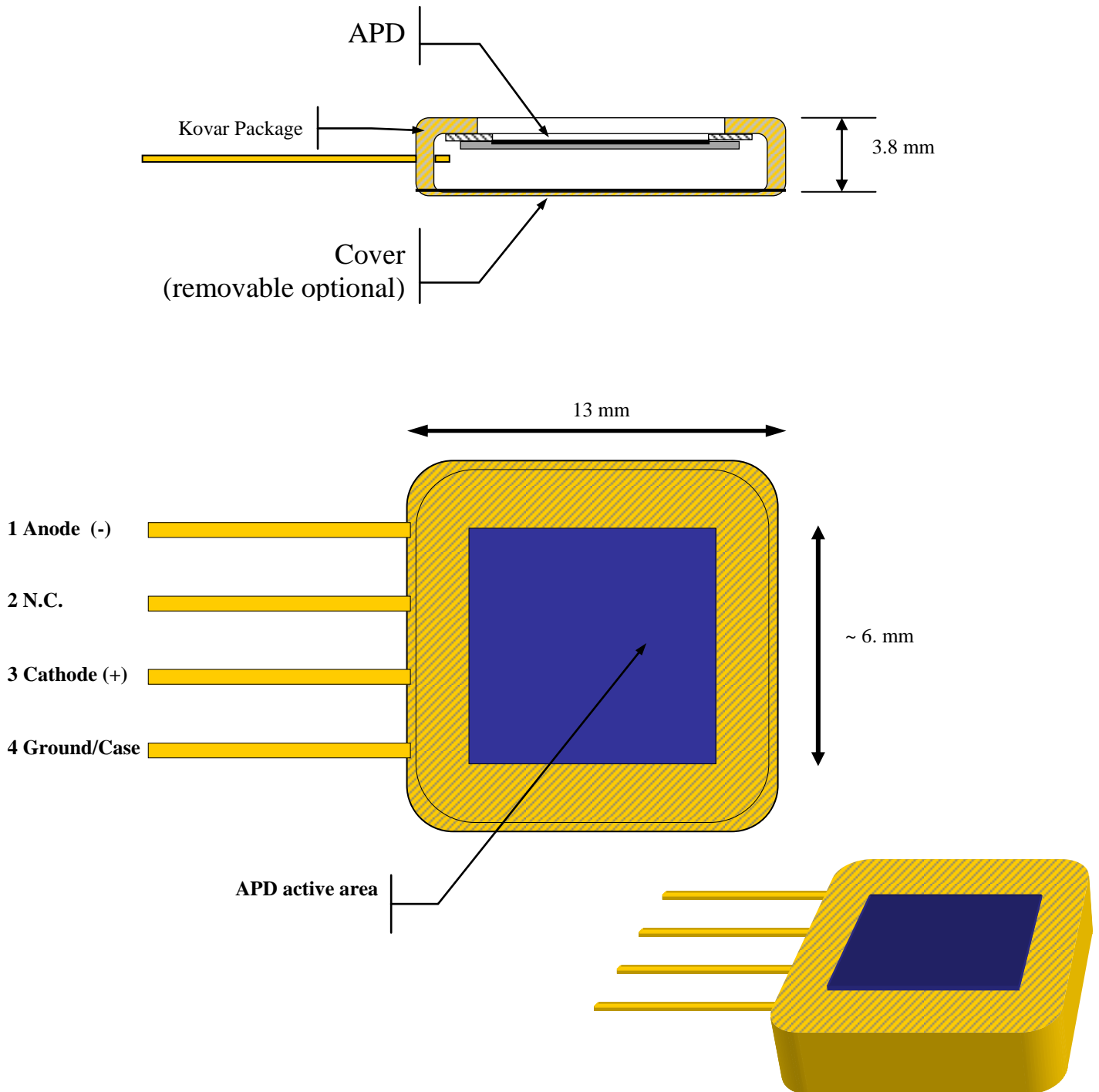
#### Biasing:

- 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 pre-amplifier input

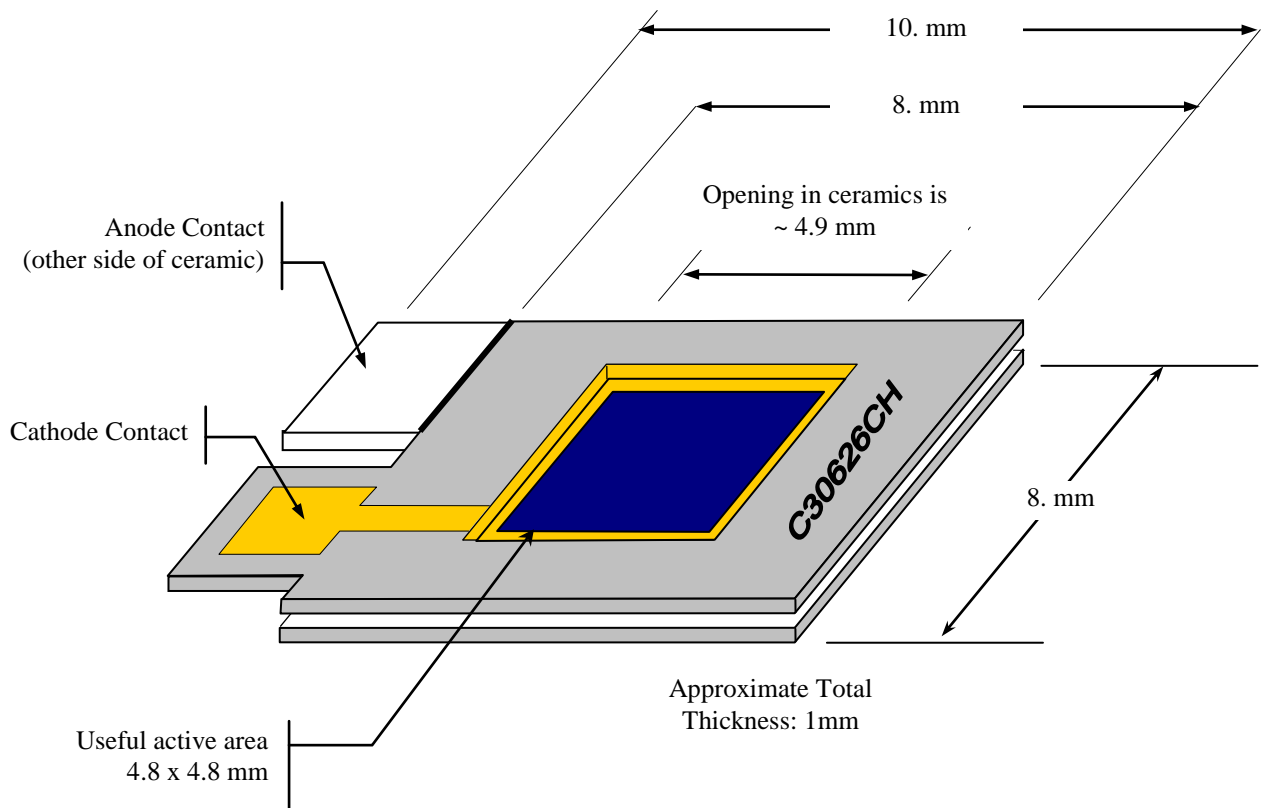
#### Electrical Characteristics (typical)

- Responsivity at 900 nm 22 A / W
- Dark Current 250 nA
- Spectral noise density 0.5 pA /  $\sqrt{\text{Hz}}$
- Capacitance, 30 pF (100 $\mu\text{m}$  effective thickness)  
20 pF (200 $\mu\text{m}$  effective thickness)
- Rise Time 5 ns
- N.E.P. at 900 nm 23 fW /  $\sqrt{\text{Hz}}$
- Also see page 4 for typical gain and noise curves.

### C30626FH Avalanche Photodiode



**C30626CH APD Assembly for X-Ray (transmission mount).**



**Typical Characteristics. C30626FH Avalanche Photodiode Datasheet**

