

Photodiodes with TO-18 footprint:

Pinout:
1 Anode
2 Cathode
3 Case

Fermionics FD80FC
<https://www.fermionics.com/High-Speed-Devices.html>

Hamamatsu G9801-32
<https://www.hamamatsu.com/eu/en/product/type/G9801-32/index.html>

Fermionics FD80FC
typ. 0.4 pF at $V_r = 5\text{ V}$

TIASim predictions (<https://github.com/aeWallin/TIASim>)

Fast detector:
Diode FDS015, RF 1.2 kOhm, CF 0.6 pF gives BW-3dB: 452 MHz

Slow detector:
Diode S5973, RF 1 MOhm, CF None, BW-3db: 3.5 MHz

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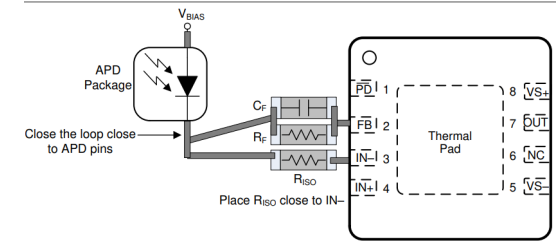
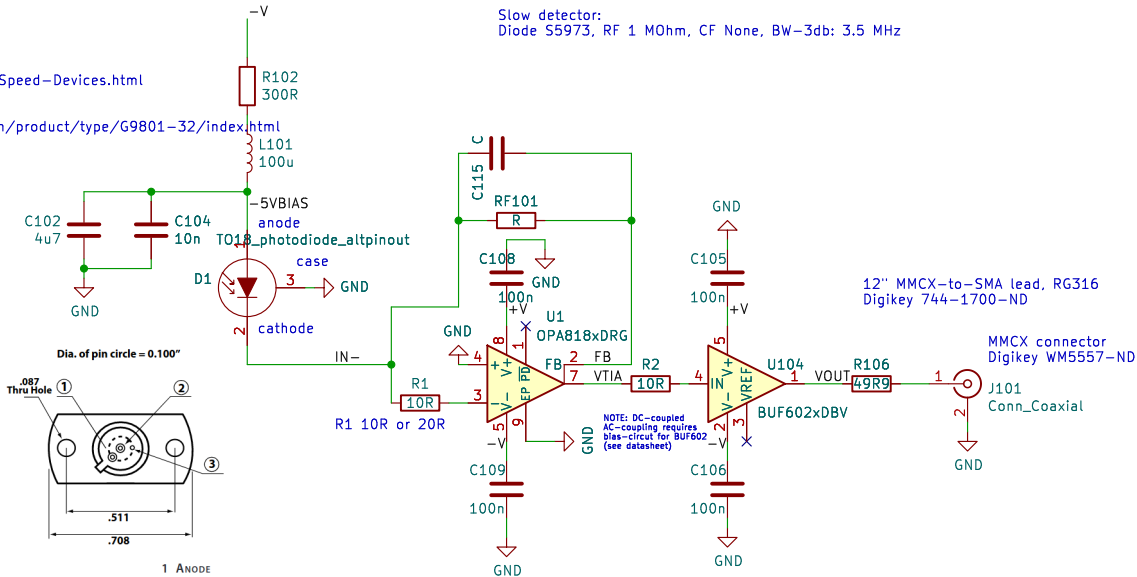
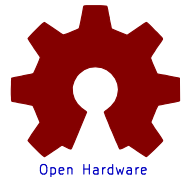
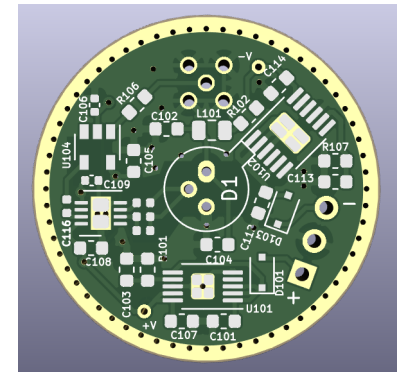


Figure 60. Improved TIA Layout



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