

Summary

The following explains how to convert a +1 V to +6V analog signal to a 0 – 5 V signal on the QED board.

QED board. If the negative supply available is not -5V, then the supply must be at least -3V. The Schottky diodes clamp the input voltage to the valid input range of the A/D converter. Any schottky diode will work.

Description

The circuit below (Figure 1) takes a +1V to +6V analog signal and converts it to a 0 - 5V signal. All connections are to the Analog I/O connector on the

The LT1004CZ-1.2 is available from Digi-Key (LT1004CZ-1.2-ND) and is in a TO-92 package. The 10K and 2K resistors provide a voltage divider to get the 1V drop and should be 1% value resistors.

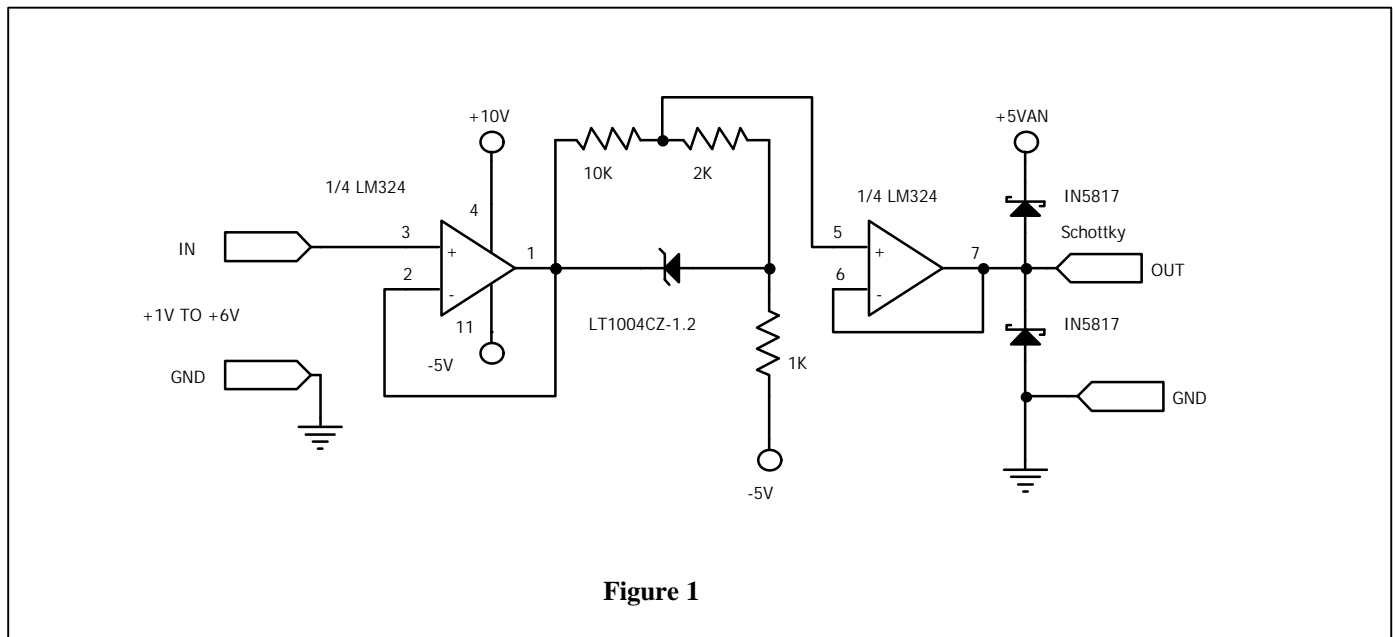


Figure 1

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