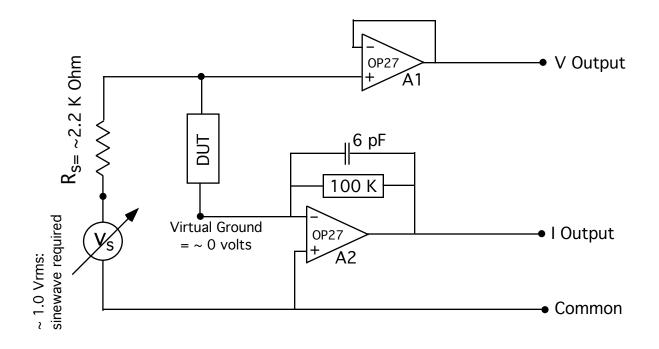
I-V Buffer Circuit

October 2003 Circuit



V Output is a buffered replica of the voltage across the Device Under Test (DUT). A1 is the voltage follower.

I Output is a voltage equal to 100,000 times the current through the DUT. A2 is the transimpedance amplifier.

The exact value of Rs is not critical, and values from 1K0 to 1M0 have been used.

The 100K0 feedback resistor and 6p0 feedback capacitor roll the current response off at ~260 KHz. Circuit has been used up to 20 KHz, but will go higher.

The OP27 opamps are powered by a pair of 9-volt batteries. Power leads, switches, and bypass capacitors are all necessary, but not shown above.