



**Figure 2** This effective 1-MΩ transimpedance amplifier has only 43 nV/ $\sqrt{\text{Hz}}$  of output noise. The circuit takes 10 times the high amplifier gain and then attenuates by a factor of 10. The LTC6240 has low current and voltage noise. The discretes allow for high output swing at the 10-MΩ gain node, so that a 0 to 5V output swing remains after attenuation.