

HIGH FREQUENCY APPLICATIONS

The BUF634's excellent bandwidth and fast slew rate make it useful in a variety of high frequency open-loop applications. When operated open-loop, circuit board layout and bypassing technique can affect dynamic performance.

For best results, use a ground plane type circuit board layout and bypass the power supplies with 0.1 μ F ceramic chip

capacitors at the device pins in parallel with solid tantalum 10 μ F capacitors. Source resistance will affect high-frequency peaking and step response overshoot and ringing. Best response is usually achieved with a series input resistor of 25 Ω to 200 Ω , depending on the signal source. Response with some loads (especially capacitive) can be improved with a resistor of 10 Ω to 150 Ω in series with the output.

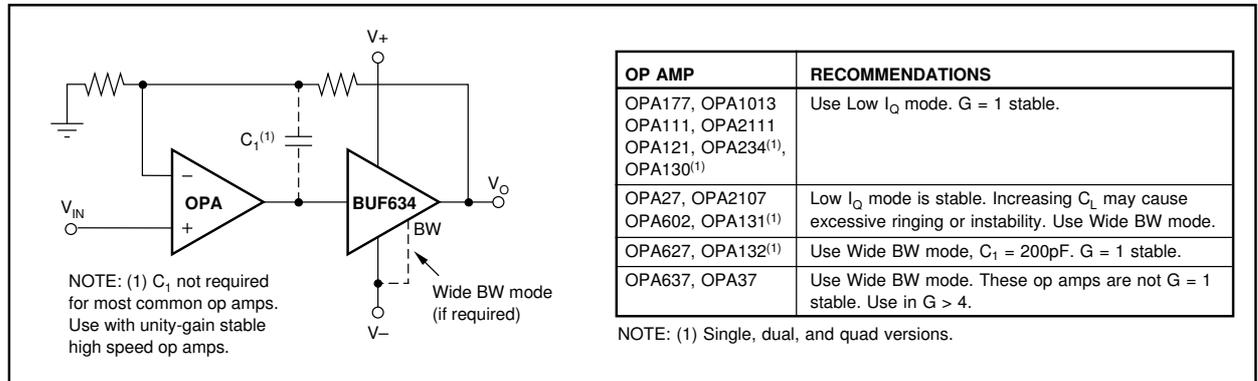


FIGURE 4. Boosting Op Amp Output Current.

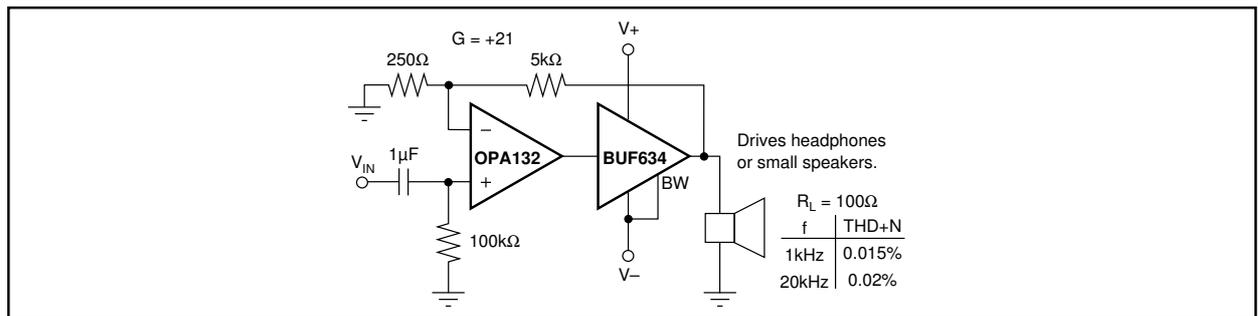


FIGURE 5. High Performance Headphone Driver.

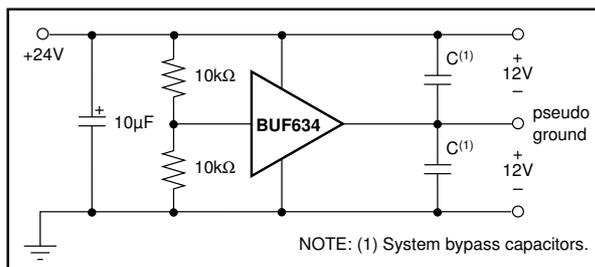


FIGURE 6. Pseudo-Ground Driver.

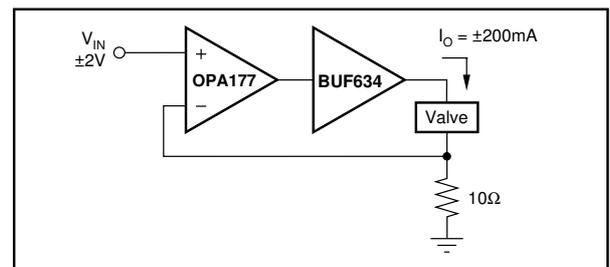


FIGURE 7. Current-Output Valve Driver.

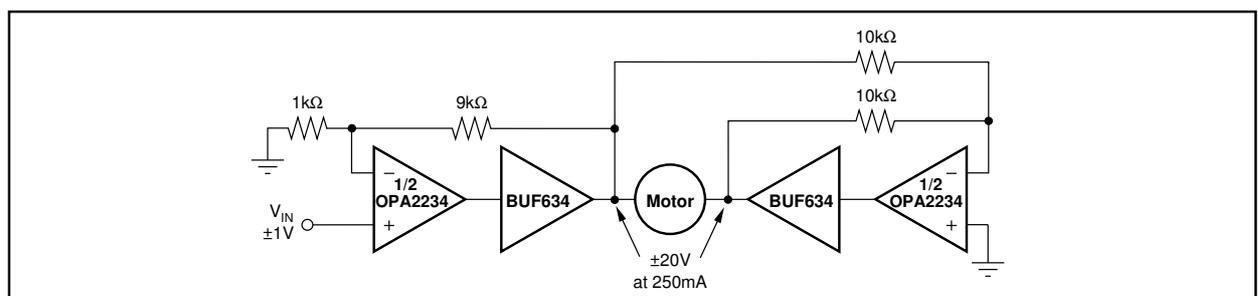


FIGURE 8. Bridge-Connected Motor Driver.