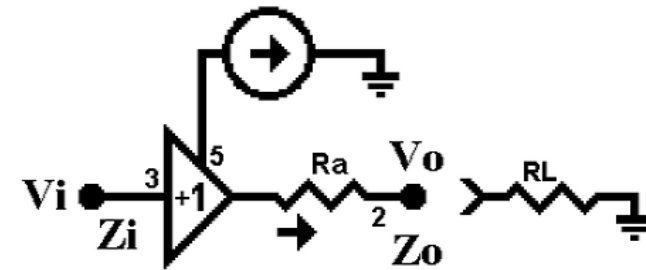


Super Buffer
(Uses only 1 AD844)

$$\frac{V_o}{V_i} = \frac{R_L}{R_L \left[1 + \frac{R_a}{R_2 + R_b} \right] - R_a \frac{(R_1 - R_2 - R_b)}{R_2 + R_b}}$$

$$Z_o = \frac{R_a(R_1 - R_2 - R_b)}{R_2 + R_a + R_b}$$

$$Z_i = R_L \frac{R_2 + R_a + R_b}{R_a} - (R_1 - R_2 - R_b)$$



Simple Buffer

$$\frac{V_o}{V_i} = \frac{R_L}{R_L + R_a}$$

$$Z_o = R_a$$

$$Z_i = (\text{Beta})_{\text{npn}} (\text{Beta})_{\text{pnp}} (R_L + R_a)$$