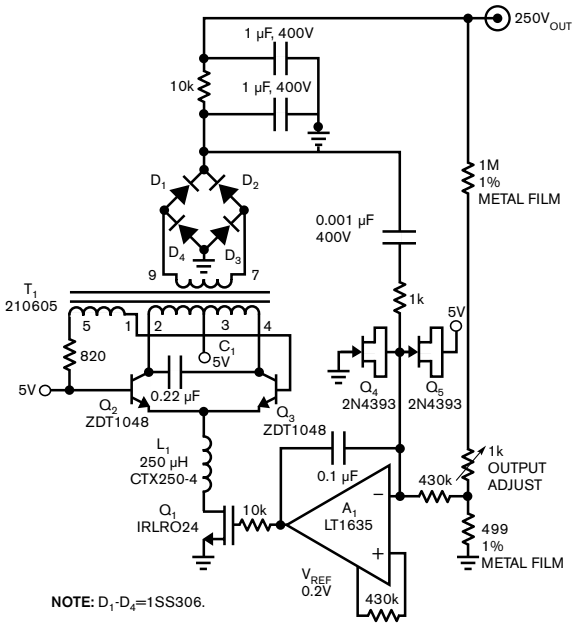

Figure 1 This current-fed resonant Royer converter produces a high-voltage output. Amplifier A_1 biases the Q_1 current sink. This step creates a feedback loop that stabilizes the output voltage. Amplifier A_1's 0.001-µF-capacitor, 1-kΩ-resistor network creates a phase lead relative to the output filter, thereby optimizing transient response. Low-leakage clamp diodes D_5 and D_6 protect A_1.