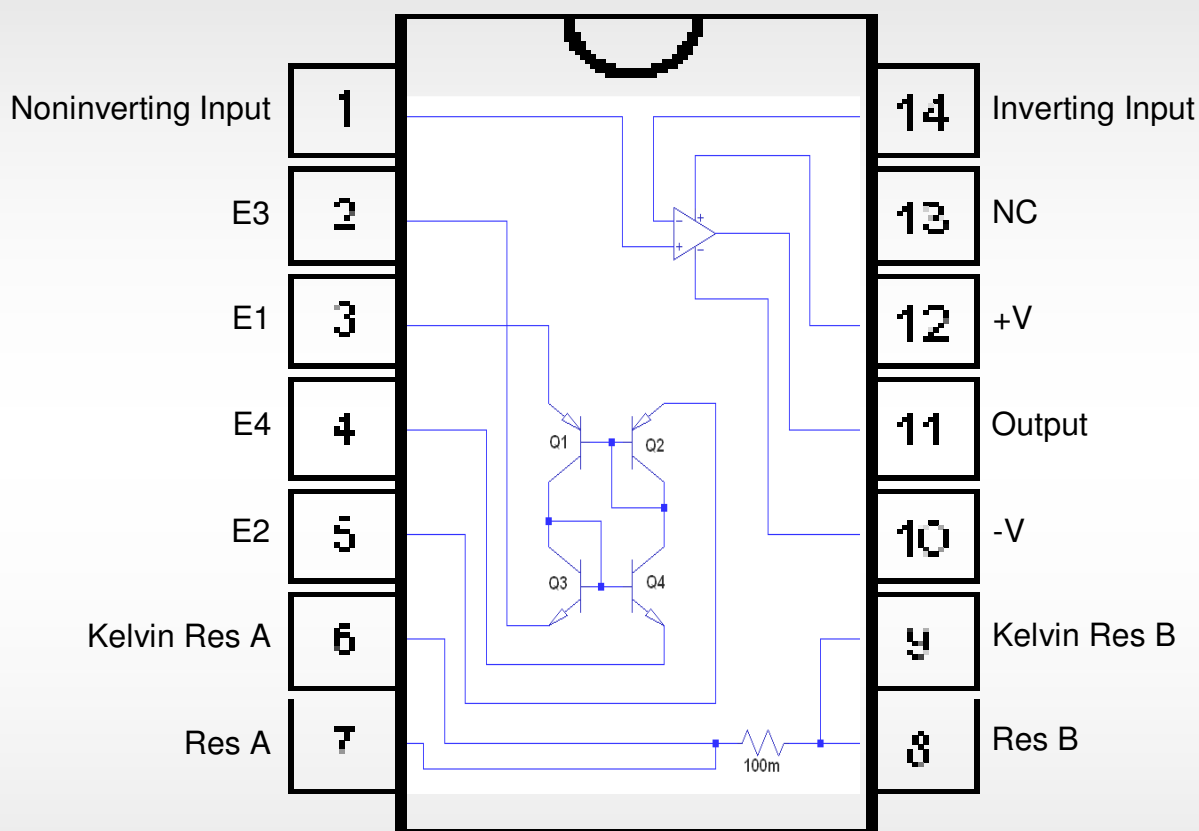


High Voltage (300V) Precision Current Mirror, 100 milliohm Sense resistor, and 741 Op Amp



Q1 thru Q4 are lot-matched and thermally-bound high voltage transistors. They are interconnected to form a current mirror which allows the user to sense the current in either a high positive or high negative volt power supply line, for use up to 300 Volts. The internal precision 100 milliohm current sense resistor is connected in series with the line, and Kelvin connections to the resistor provide the most accurate sensing of the voltage drop.

The uncommitted 741-style op amp provides flexibility in setting the gain and bandwidth of this high-integration device.