

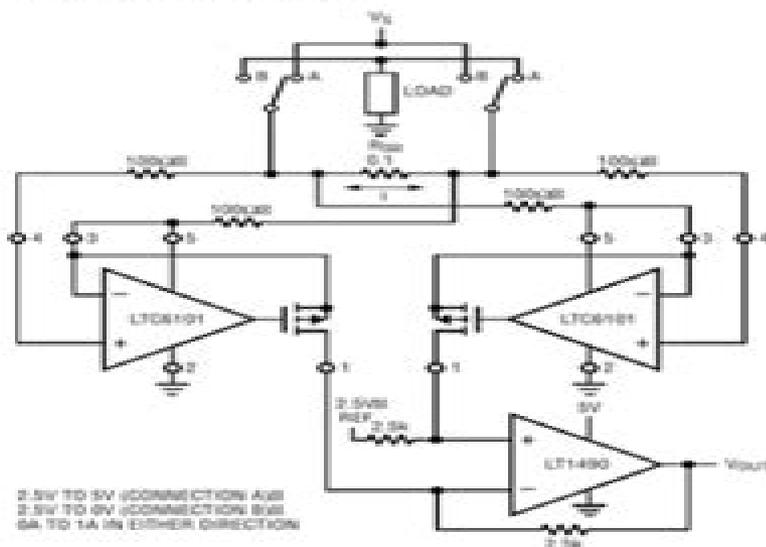
# APPLICATION NOTE 105: Current Sense Circuit Collection

## Bidirectional

Bidirectional current sensing monitors current flow in both directions through a sense resistor.

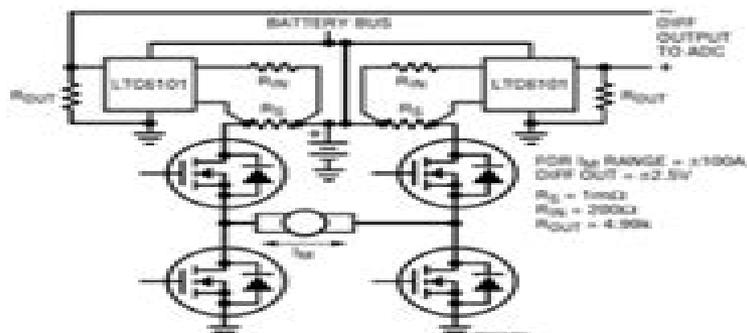
To see other chapters in this Application Note, return to the [Introduction](#).

### Bidirectional Current Sensing with Single Ended Output



Two LTC6101's are used to monitor the current in a load in either direction. Using a separate rail-to-rail op amp to combine the two outputs provides a single ended output. With zero current flowing the output sits at the reference potential, one-half the supply voltage for maximum output swing or 2.5V as shown. With power supplied to the load through connection A the output will move positive between 2.5V and  $V_{CC}$ . With connection B the output moves down between 2.5V and 0V.

### Practical H-Bridge Current Monitor Offers Fault Detection and Bidirectional Load Information



This circuit implements a differential load measurement for an ADC using twin unidirectional sense measurements. Each LTC6101 performs high side sensing that rapidly responds to fault conditions, including load shorts and MOSFET failures. Hardware local to the switch module (not shown in the diagram) can provide the protection logic and furnish a status flag to the control system. The two LTC6101 outputs taken differentially produce a bidirectional load measurement for the control servo. The ground-referenced signals are compatible with most  $\Delta\Sigma$  ADCs. The  $\Delta\Sigma$  ADC circuit also provides a "free" integration function that removes PWM content from the measurement. This scheme also eliminates the need for analog-to-digital conversions at the rate needed to support switch protection, thus reducing cost and complexity.

# An105 Current Sense Circuit Collection Making Sense Of

**Christian Drosten**



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