

## Fully Integrated, Hall Effect-Based Linear Current Sensor with High Voltage Isolation and a Low-Resistance Current Conductor

### Features and Benefits

- Monolithic Hall IC for high reliability
- Single +5 V supply
- 3 kV<sub>RMS</sub> isolation voltage between terminals 4/5 and pins 1/2/3 for up to 1 minute
- 18 kHz bandwidth
- Automotive temperature range
- End-of-line factory-trimmed for gain and offset
- Ultra-low power loss: 100  $\mu\Omega$  internal conductor resistance
- Ratiometric output from supply voltage
- Extremely stable output offset voltage
- Small package size, with easy mounting capability
- Output proportional to DC currents

### Package: 5 pin module (leadform PFF)



### Description

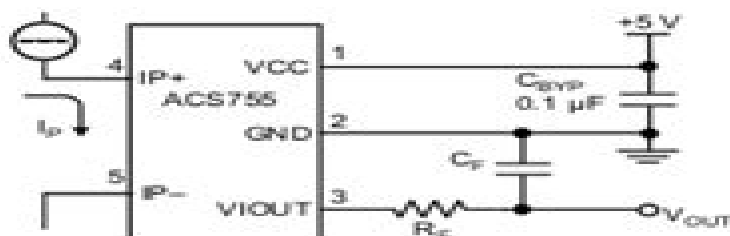
The Allegro ACS755 family of current sensors provides economical and precise solutions for DC current sensing in industrial, automotive, commercial, and communications systems. The device package allows for easy implementation by the customer. Typical applications include motor control, load detection and management, power supplies, and overcurrent fault protection.

The device consists of a precision, low-offset linear Hall sensor circuit with a copper conduction path located near the die. Applied current flowing through this copper conduction path generates a magnetic field which is sensed by the integrated Hall IC and converted into a proportional voltage. Device accuracy is optimized through the close proximity of the magnetic signal to the Hall transducer. A precise, proportional voltage is provided by the low-offset, chopper-stabilized BiCMOS Hall IC, which is programmed for accuracy at the factory.

The output of the device will be valid when a current flows through the primary copper conduction path from terminal 4 to terminal 5, which is the path used for current sensing. The internal resistance of this conductive path is 100  $\mu\Omega$  typical, providing low power loss.

Continued on the next page...

### Typical Application



Application 1: The ACS755 outputs an analog signal,  $V_{OUT}$ , that varies linearly with the unidirectional DC primary sensed current,  $I_P$ , within the range specified.  $C_F$  is recommended for noise management, with values that depend on the application.

# Allegro Abv441 User Manual

**Michael Seilmaier**



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