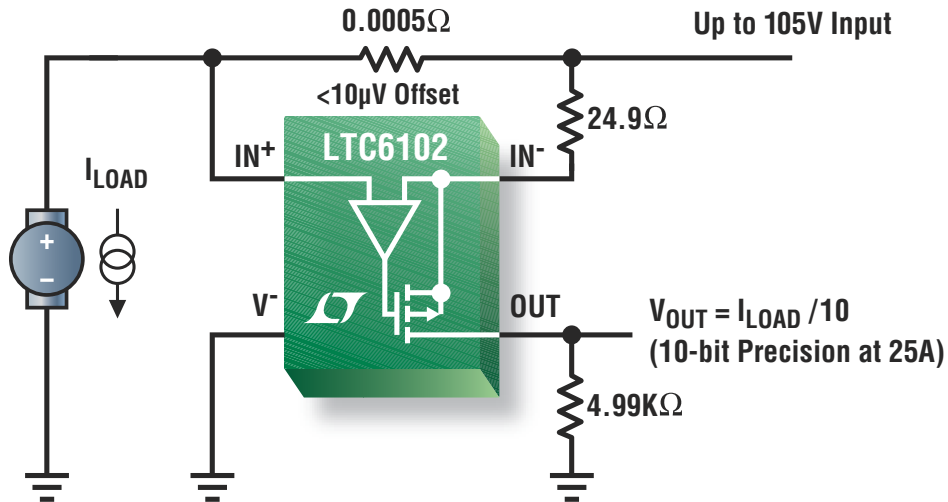


# Zero-Drift I<sub>SENSE</sub>



Resolve  $\mu$ Amps from Amps

Reduce  $R_{SENSE}$  by 99%

Our LTC<sup>®</sup>6102 zero-drift high side current sense amplifier has the precision to resolve microamps from amps of load current. Don't need ultra-high resolution? The LTC6102 offers equivalent resolution to other "precision" current sense amplifiers with a sense resistor that is 99% smaller. Lower sense resistance means more power to the load and less power wasted. Maximize resolution, minimize  $R_{SENSE}$ , or pick a combination in between—the choice is yours.

## Current Sense Amplifiers

## Info & Free Samples

	NEW	NEW	NEW	NEW	NEW			
Part	LT <sup>®</sup> 6106	LT6105	LTC6104	LTC6103 Dual	LTC6102 LTC6102HV	LTC6101 LTC6101HV	LT6100	LT1787 LT1787HV
Current Direction	→	→	↔	→	→	→	→	↔
Common Mode Voltage	2.7V to 44V	-0.3V to 44V	4V to 70V	4V to 70V	4V to 70V 5V to 105V	4V to 70V 5V to 105V	4.1V to 48V	2.5V to 40V 2.5V to 65V
Response Time	3.5μsec	3.5μsec	1μsec	1μsec	1μsec	1μsec	40μsec	10μsec
$V_{OS}$ Max.	250μV	300μV	450μV	450μV	10μV	300μV	300μV	100μV
$V_{OS}$ Drift	1μV/°C	1μV/°C	1.5μV/°C	1.5μV/°C	50nV/°C	1μV/°C	0.5V/°C	0.5V/°C
$I_{BIAS}$ Max.	40nA	25μA	170nA	170nA	3nA	170nA	10μA	20μA
Gain	R-SET	R-SET	R-SET	R-SET	R-SET	R-SET	PIN-SET	8V/V
PSRR Min.	106dB	100dB	110dB	110dB	120dB	118dB	105dB	120dB

[www.linear.com/6102](http://www.linear.com/6102)

1-800-4-LINEAR



Download Linear Technology's  
I<sub>SENSE</sub> Application Note  
[www.linear.com/currentsense](http://www.linear.com/currentsense)

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