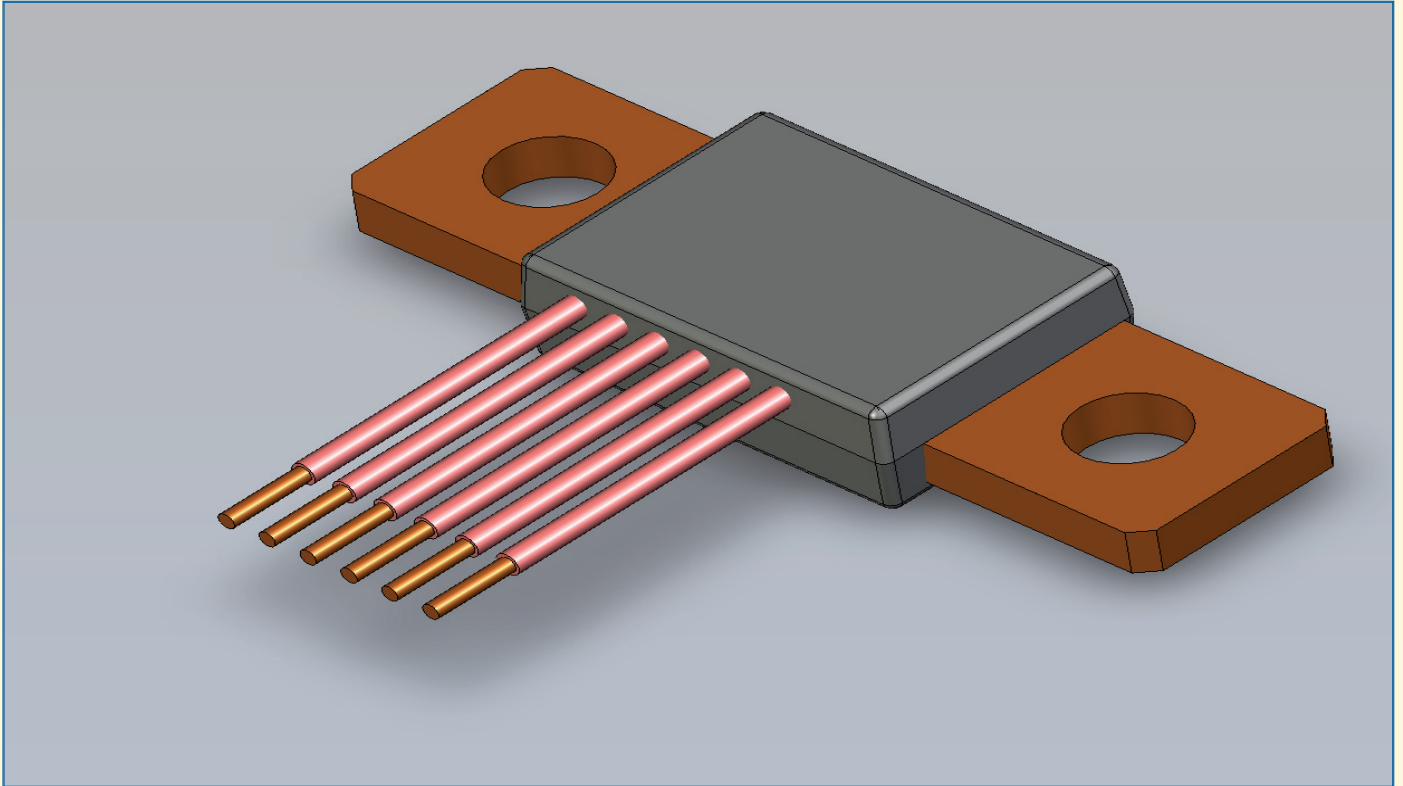
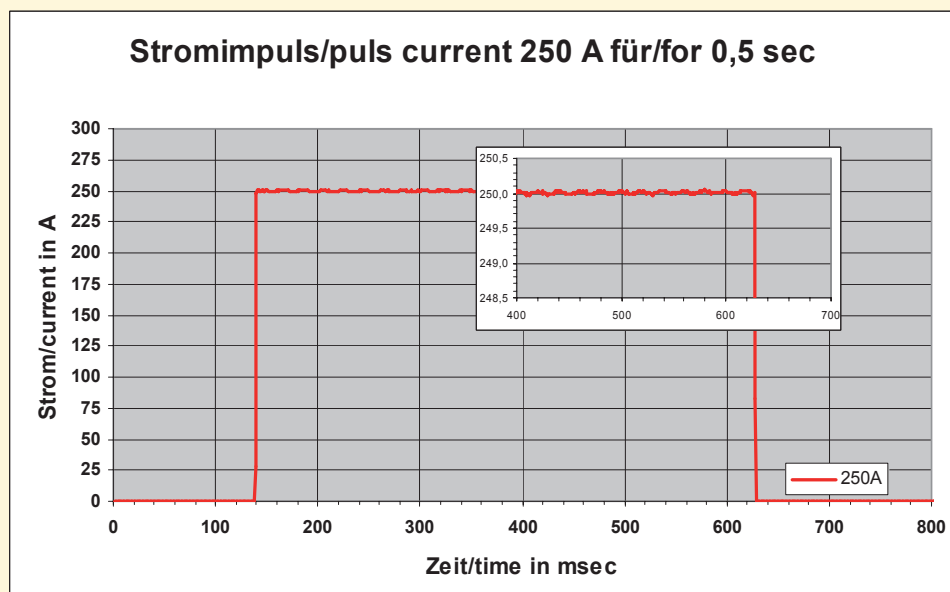


Analog current sensor modul for highside applications



With **IAS-A-R0001** ISAscale® presents a well priced and in addition to that a precise current sensor with a analog output. The IAS current sensor module is developed for unipolar and bipolar applications at the highside. The output signal is analog and realized by a current equivalent voltage signal. With its operation at the highside a additional power supply is not required. The current measurement is realized with a 100, 200 or 300- μ Ohm-Shunt.



Shunts	100 μ Ohm 200 μ Ohm 300 μ Ohm
Power supply	operation at the high side
Amplifier	3V nominal current (equivalent approx. 1V/100A)
Operation	bi-directional
Offset	< 40 μ V (bi-directional charge and discharge current) < 10 μ V (unidirectional only discharge current)
Offset drift	< 0.5 μ V / °C (bi-directional) < 0.5 μ V / °C (bi-directional) < 0.05 μ V / °C (unidirectional)
Operating temperature	0 ... + 70 °C - 40 ... + 85 °C - 40 ... + 125 °C (depends on the application)
Filter frequency adjustable	1 kHz ... 100 kHz
Linearity	0.2 %
Resolution	12 - 16 bit
Output signal	analog 0 - 5 V

Benefits:

- current signal is directly evaluable on 3V or accordingly 5V by a μ C
- Replacement of DIN Shunts
- Better resolution with lower power loss
- Small footprint

Applications:

- All-purpose current sensor for high current applications

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gies of DIN and VDE

DKE
VDE DIN



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DIN EN ISO 9001:2000
certified



ISAscale® – precise efficiency