

# Gate Drivers: AUIR3200S

## DESCRIPTION:

The AUIR3200S is a high side mosfet driver for very low  $R_{ds(on)}$  automotive application. It offers over-current, over-temperature protection and diagnostic. The over-current protection is done by monitoring the  $V_{ds}$  voltage, the threshold is programmable by external resistor. The over-temperature protection uses a thermal sensor. The AUIR3200S offers diagnostic on the input pin.

## FEATURES:

- Bootstrap and charge pump
- Over temperature shutdown (with Ptc interface)
- Short circuit protection ( $V_{ds}$  detection)
- Reverse battery protection (turns On the MOSFET)
- Ground loss protection
- Diagnostic
- ESD protection

## TARGET APPLICATIONS:

- Relay Replacement

## BENEFITS:

- Protected switch with  $R_{ds(on)}$  as low as 0.75mOhm can be implement by driving two MOSFETs in parallel
- Short-circuit protection
- Over-temperature protection
- Digital diagnostic

