

BTS5012-1EKB (PROFET™ + 12V)

DESCRIPTION:

The BTS5012-1EKB is a 12 mΩ single channel Smart High-Side Power Switch, embedded in a PG-DSO-14-47 EP, Exposed Pad package, providing protective functions and diagnosis. The power transistor is built by an N-channel vertical power MOSFET with charge pump. The device is integrated in Smart6 technology. It is specially designed to drive lamps up to H4 / H7 or 3 x P27W + 2 x R5W, as well as LEDs in the harsh automotive environment.

SUMMARY OF FEATURES:

- One channel device
- Very low stand-by current
- 3.3 V and 5 V compatible logic inputs
- Electrostatic discharge protection (ESD)
- Optimized electromagnetic compatibility
- Logic ground independent from load ground
- Very low power DMOS leakage current in OFF state
- Green product (RoHS compliant)
- AEC qualified

APPLICATIONS:

- Suitable for resistive, inductive and capacitive loads
- Replaces electromechanical relays, fuses and discrete circuits
- Most suitable for loads with high inrush current, such as lamps

