

# TLE 84110EL DECA Half-bridge Driver for DC-Motor

THE TLE 84110EL IS A PROTECTED Deca-Half-Bridge-Driver designed especially for DC Motor Control in automotive applications such as flap motors in HVAC systems (Heating Ventilation Air Conditionning).

The 10 half-bridge drivers are designed to drive DC motor loads in sequential or parallel operation. Operation modes forward (cw), reverse (ccw), brake and high impedance are controlled from a 16-bit SPI interface.

The extremely small 24 pin fine pitch exposed pad package in a SO-14 body provides good thermal performance and reduces PCB-board space and costs.

#### Applications

 Flap DC motor driver for heating, ventilation and air conditioning systems (HVAC)

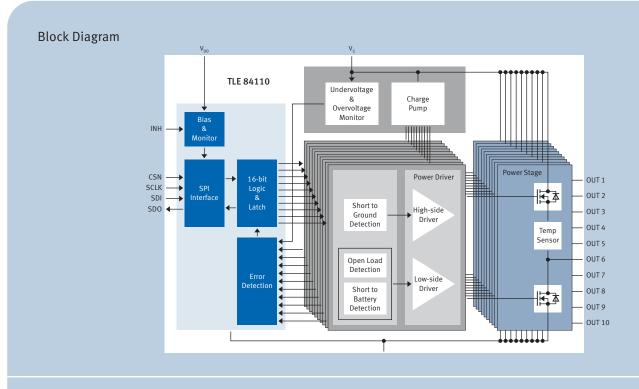
### **Key Features**

- 10-halfbridges to drive up to 5 motors in parallel mode or 9 motors in sequential mode
- Minimum Overcurrent Threshold of 1A
- Simple communication and error diagnosis via 16-bit SPI
- Lowest quiescent current product on the market
- Pin, package and SW compatible to TLE 84106EL
- AEC qualified

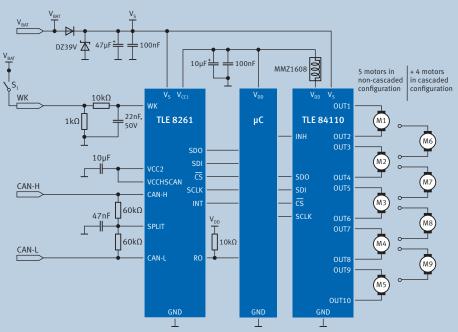
#### Key Benefits

- Easy implementation of motor drives
- Over current, Over temperature,
  Over voltage and Open Load
  Diagnosis
- Family compatibility provides flexibility to drive 3 to 5 motors in parallel mode or 5 to 9 motors in cascaded configuration
- Automotive applications

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## Application Diagram



How to reach us: http://www.infineon.com

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