THE DATASHEET OF

TLE7235EMXUMA1

Product Brief

SPIDER HS/LS Enhanced

SPI Driver for Enhanced Relay Control

TLE 723xSL/3xSE/3xEM

The Infineon SPIDER high-side / low-side (HS/LS) enhanced family consists of nine family members. They are all eight-channel SPI-controlled combined high- and low-side switches especially designed to drive automotive relays.

The HS/LS family consists of three sub-families (-SL, -SE and -EM), offering different combinations of current capability and package size. Within these sub-families, the device can be selected by its featureset limp-home or low-voltage cranking (down to 4.0V).

The subfamily devices are pin-compatible and devices with same featureset are software compatible. So it is easily possible to switch from one device to another.

All devices are protected against short circuit and overload and especially designed to fulfil the requirements of the harsh automotive environment.

Applications

- High-side and low-side driven automotive relays
- Small LEDs and other small signal loads

www.infineon.com/spider

Key Features

- Logic part of all devices is protected against reverse battery
- High flexibility due to
  4 high-side
  2 configurable,
  2 low-side channels
- SPI communication
- Short circuit and over load protection, thermal shutdown
- Scalable by featureset and current capability
- Cranking and limp home version available

Key Benefits

- Reduced microcontroller I/Os
- Small package to reduce board space
- Possibility to address safety critical application under harsh automotive conditions
- If you know one device you know the whole family

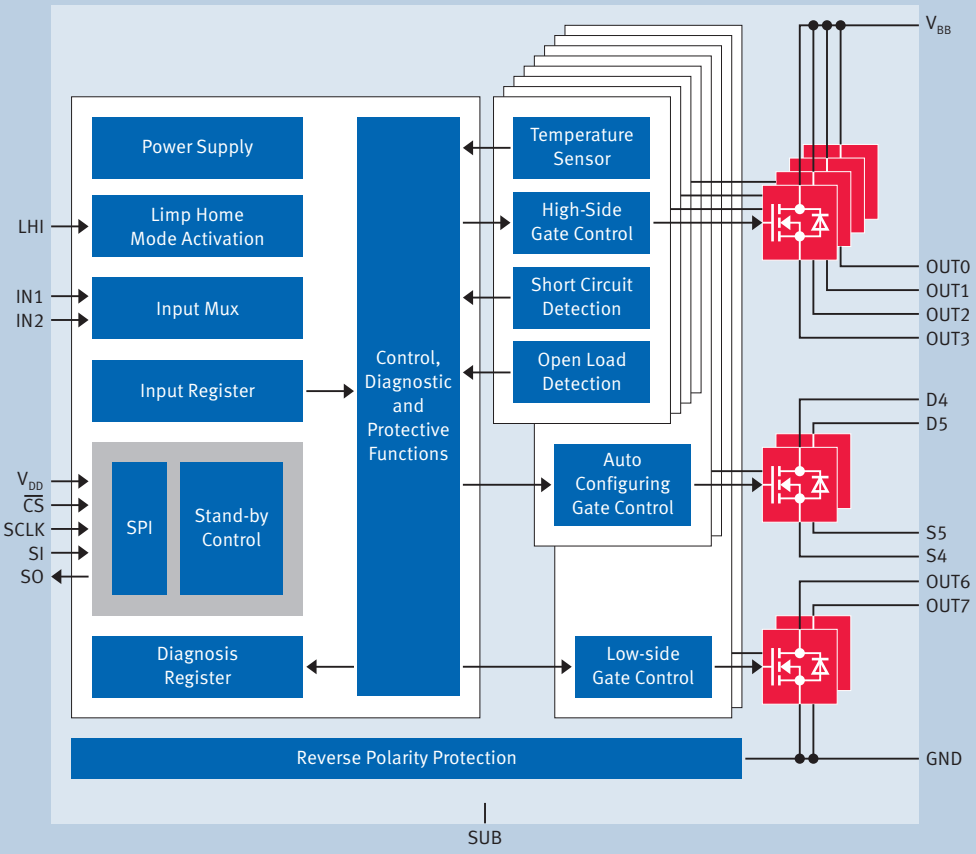
RoHS

AEC Qualified

SPIDER HS/LS Enhanced

TLE 723xSL/3xSE/3xEM

Block Diagram TLE 7239SL



SPIDER HS/LS Enhanced Family

Product	Nominal Current	Package	Features
TLE 7237SL	6*230mA, 2*130mA	PG-SSOP-24	3 Direct Inputs
TLE 7238SL	6*230mA, 2*130mA	PG-SSOP-24	2 Limp Home Channels
TLE 7239SL	6*230mA, 2*130mA	PG-SSOP-24	2 Limp Home Channels & Cranking
TLE 7234SE	6*280mA, 2*140mA	PG-DSO-20	3 Direct Inputs
TLE 7235SE	6*280mA, 2*140mA	PG-DSO-20	2 Limp Home Channels
TLE 7236SE	6*280mA, 2*140mA	PG-DSO-20	2 Limp Home Channels & Cranking
TLE 7234EM	6*350mA, 2*175mA	PG-SSOP-24 Exposed Pad	3 Direct Inputs
TLE 7235EM	6*350mA, 2*175mA	PG-SSOP-24 Exposed Pad	2 Limp Home Channels
TLE 7236EM	6*350mA, 2*175mA	PG-SSOP-24 Exposed Pad	2 Limp Home Channels & Cranking

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