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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SPIDER Low-Side (8 channel) TLE7240SL/43SL/44SL

SPI Driver for Enhanced Relay Control

The Infineon SPIDER low-side (8 channel) family consists of three family members. They are all eight-channel SPI-controlled low-side switches especially designed to drive automotive relays.

All of the three devices are featuring Limp Home functionality to enable the fail safe mode. Additionally these devices have 4 direct input pins to allow PWM (pulse with modulation) operation and direct control of the load. The devices are available in the very small and board space saving PG-SSOP24 package. All devices are pin-compatible and software compatible. So it is easily possible to switch from on device to another.

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

# Application:

- Lowside driven automotive Relays
- Small LEDs and other small signal loads
- Unipolar stepper motors





www.infineon.com/spider

#### **Key Features:**

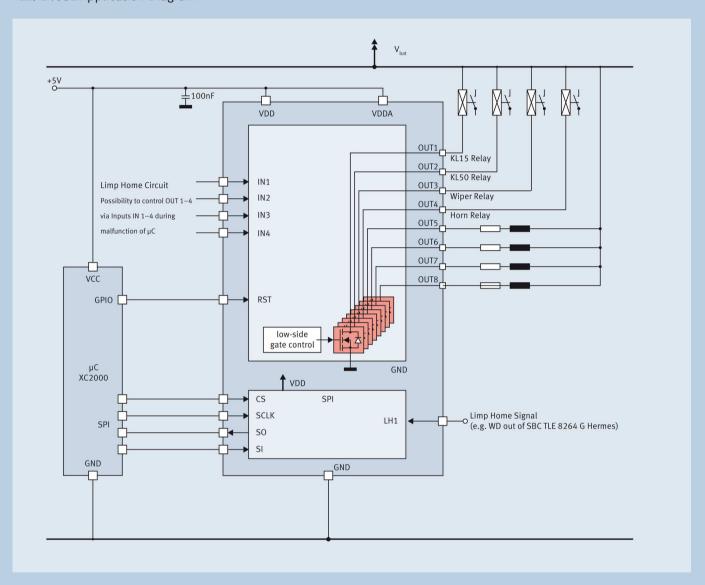
- Scalable by Rds<sub>on</sub> and current capability
- SPI communication
- Short circuit and over load protection, thermal shutdown
- Features limp functionality fur fail safe mode

## Key Benefits:

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

# SPIDER Low-Side (8 channel) TLE7240SL/43SL/44SL

### TLE7240SL Application Diagram



### SPIDER LS (8 channel) family

Product	Nominal Current	Rds <sub>on</sub> (typ.@25°C)	Package
TLE7240SL	8*210mA	8*1,5Ω	PG-SSOP24
TLE7243SL	8*260mA	8*1,2Ω	PG-SSOP24
TLE7244SL	8*290mA	8*0,8Ω	PG-SSOP24

Published by Infineon Technologies AG 85579 Neubiberg, Germany

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Visit us: www.infineon.com

Order Number: B127-H9504-X-X-7600

Date: 07 / 2010

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