



Product Overview

NCV7720: Deca Half-Bridge Driver

For complete documentation, see the data sheet

Product Description

The NCV7720 Deca is a ten channel half-bridge driver with protection features designed specifically for automotive and industrial motion control applications. The product has independent controls and diagnostics, and the drivers can be operated in forward, reverse, brake, and high impedance states. The device is controlled via a 16 bit SPI interface and is daisy chain compatible.

Features

- Low Quiescent Current Sleep Mode
- HighSide and LowSide Drivers Connected in a HalfBridge Configuration
- Integrated Freewheeling Protection (LS and HS)
- 0.55 A Peak Current
- $R_{DS(on)} = 1\text{ ohm (typ)}$
- 5 MHz SPI Control
- Compliance with 5 V and 3.3 V Systems
- Undervoltage and Overvoltage Lockout
- Overcurrent Protection
- Overtemperature Protection

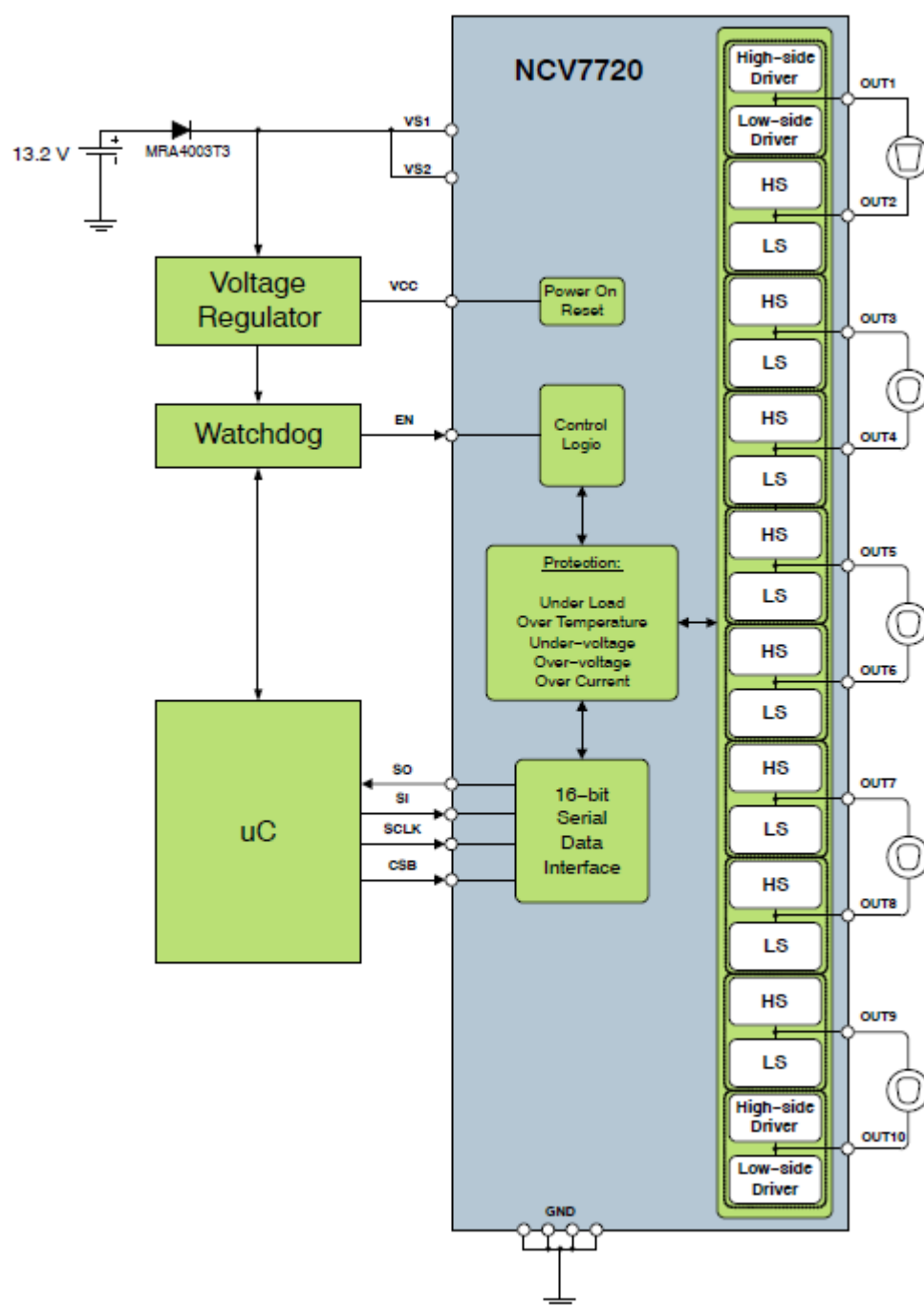
Applications

- Automotive
- Industrial
- DC Motor Management for HVAC Application

Part Electrical Specifications

Product	Compliance	Status	Type	V_M Min (V)	V_M Max (V)	V_{CC} Min (V)	V_{CC} Max (V)	I_O Max (A)	I_O Peak Max (A)	Step Resolution	Control Type	Feedback Method	Current Sense	Regulator Output	Fault Detection	Flyback Protection	$R_{DS(on)}$ Typ ()	Package Type
NCV7720DQR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active							0.55		SPI				Open Coil Over-Current Thermal UV LO	Integrated Active		SSOP-24 NB EP

Application Diagram



For more information please contact your local sales support at www.onsemi.com

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