



Product Overview

NCV7728: Hex Half-Bridge Driver

For complete documentation, see the [data sheet](#)

Product Description

The NCV7728 is a Hex Half-Bridge Driver with protection features designed specifically for automotive and industrial motion control applications. The NCV7728 has independent controls and diagnostics. The device can be operated in forward, reverse, brake, and high impedance states. The drivers are controlled via a 16 bit SPI interface and are daisy chain compatible.

Features

- Low Quiescent Current Sleep Mode
- Half-bridge Connected High-side & Low-side Driver Configuration
- Integrated High and Low-side Freewheeling Protection
- 0.55 A Peak Current
- $R_{DS(on)} = 1 \text{ } (\text{typ.})$
- 5 MHz SPI Control
- Compliance with 5 V and 3.3 V Systems
- Undervoltage & Overvoltage Lockout
- Discriminated Fault Reporting
- Overcurrent 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 Reso- lution	Cont- rol Type	Feed- back Meth- od	Curr- ent Sense	Regu- lator Out- put	Fault Dete- ction	Fly- back Pro- tec- tion	R _{DS(on)} Typ (Ω)	Pack- age Type
NCV7728DPR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active		5.5	28	3.15	5.25	0.8	0.55		SPI	Non- e			Over- - Curr- ent	Integ- rated Activ- e		SSOP-24

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

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