



Product Overview

NCV7718B: Hex Half-Bridge Driver

For complete documentation, see the data sheet

Product Description

The NCV7718B is a Hex Half-Bridge Driver with protection features designed specifically for automotive and industrial motion control applications. The NCV7718B 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
- HighSide and LowSide Drivers Connected in a HalfBridge Configuration
- Integrated Freewheeling Protection (LS and HS)
- 0.55 A Peak Current
- $R_{DS(on)} = 1 \text{ Ohm (typ)}$
- Total Path Resistance (LS + HS) 4 Ohm (max) @ 500 mA
- Compliance with 5 V and 3.3 V Systems
- Undervoltage and Overvoltage Lockout
- Overcurrent and Overtemperature Protection
- Under Load Detection

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 (Ω)	Package Type
NCV7718BDQR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step per/Brush DC	4.5	32	3.15	5.25		0.55 A		SPI				Open Coil Over-Current Thermal UVLO	Integrated Active	1	SSOP-24 NBEP

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

Created on: 7/11/2015