Product Overview

NCV7723B: 6 Channel Half-Bridge Driver

For complete documentation, see the data sheet.

The NCV7723B is a six 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. Outputs 1 and 2 can be controlled through an external PWM signal.

Features

- B Version - Additional Diagnostics and Fault Reporting
- Low Quiescent Current Sleep Mode
- Half-bridge Connected High-side & Low-side Driver Configuration
- Integrated High and Low-side Freewheeling Protection
- 1.1 A Peak Current
- RDS(on) = 0.8 Ω (typ.)
- 5 MHz SPI Control
- Compliance with 5 V and 3.3 V Systems
- Undervoltage & Overvoltage Lockout
- Per Channel Fault Reporting

  For more features, see the data sheet

Benefits

- Easily diagnose each channel individually

Applications

- Automotive
- Industrial
- DC Motor Management for HVAC Application

End Products

- Climate Control Module

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	V_M Min (V)	V_M Max (V)	V_{CC} Min (V)	V_{CC} Max (V)	I_O Min (A)	I_O Peak Max (A)	Control Type	Current Sense	Package Type
NCV7723DQBR2G	1.7333	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.5	45	3.15	5.5	1.1	2	SPI	None	SSOP-24 NB EP

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

Created on: 7/7/2020