NCV7710

Door Module Driver (Lock Driver)

Product Overview

For complete documentation, see the data sheet.

The NCV7710 is a powerful Driver-IC for automotive body control systems. The IC is designed to control lock motor in the door of a vehicle. With the monolithic full-bridge driver stage, the IC is able to control lock motor. The NCV7710 is controlled thru a 24 bit SPI interface with in-frame response.

Features

- Operating Range from 5.5 V to 28 V
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- Programmable Soft-start Function to Drive Loads with Higher Inrush Currents as Current Limitation Value
- Support of PWM Control Frequency Outside the Audible Noise
- Support of Active Freewheeling to Reduce Power Dissipation
- Multiplex Current Sense Analog Output for Advanced Load Monitoring
- Very Low Current Consumption in Standby Mode
- Charge Pump Output to Control an External Reverse Polarity Protection MOSFET
- 24-Bit SPI Interface for Output Control and Diagnostic
- Protection Against Short Circuit, Overvoltage and Overtemperature

  For more features, see the data sheet

Applications

- De-centralized Door Electronic Systems
- Rear Door Electronic Unit
- Body Control Units (BCUs)
- Several H−bridge Applications

End Products

- Automobiles

Part Electrical Specifications

Product	Status	Compilance	Number of Drivers	V_{CC} Max (V)	$V_{(BR)GSS}$ Max (V)	$V_{(BR)DSS}$ Max (V)	I_D Max (A)	$r_{DS(on)}$ Max (Ω)	T_j Max (°C)	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
NCV7710DQBR2G	Active, New		2	5	~NA~	40	6	0.3	150	SSOP-36 EP	940AB.PDF	3	260	REEL	1500