

Product Overview

NCV7710: Door Module Driver (Lock Driver)

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
- Two High-Side and Two Low-Side Drivers Connected as Halfbridges- 2 Half-bridges Iload = 6 A; Rds(on) = 150 mΩ @ 25°C
- 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	Pricing (\$/Unit)	Compliance	Status	Number of Drivers	V _{CC} Max (V)	V _{(BR)DSS} Max (V)	V _{(BR)DSS} Max (V)	I _D Max (A)	r _{DS(on)} Max (Ω)	T _J Max (°C)	Package Type
NCV7710DQR2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	2	5	5.5	40	6	0.3	150	SSOP-36 EP

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

Created on: 4/7/2020