

# NCV7707

## Door Module Driver

### Product Overview

For complete documentation, see the data sheet.

The NCV7707 is a powerful driver for automotive body control systems. The device is designed to control several loads in the front foor of a vehicle. The monolithic IC is able to control mirror functions like mirror positioning, heating and folding including the electro-chromic mirror feature. Besides two half-bridge outputs to control lock and safe-lock motors, the device features four high-side outputs to drive LEDs or incandescent bulbs (up to 10W). To allow maximum flexibility, all lighting outputs can be PWM controlled thru PWM inputs (external signal source) or by an internal programmable PWM generator unit. The NCV7707 is controlled thru a 24 bit SPI interface with in-fram response.

### Features

- Operating Range from 5.5 V to 28 V
- Six HighSide and Six LowSide Drivers Connected as HalfBridges
- Four HighSide Lamp Drivers
- One HighSide Driver for Mirror Heating
- Electro Chromic Mirror Control
- Independent PWM Functionality for All Outputs
- Integrated Programmable PWM Generator Unit for All Lamp Driver Outputs
- Programmable Softstart Function to Drive Loads with Higher Inrush Currents as Current Limitation Value
- Multiplex Current Sense Analog Output for Advanced Load Monitoring
- Very Low Current Consumption in Standby Mode

For more features, see the data sheet

### Applications

- Decentralized Door Electronic Systems
- Body Control Units (BCUs)

### End Products

- Automobiles

Product	Pricing (\$/Unit)	Compliance	Status	Number of Drivers	V <sub>CC</sub> Max (V)	V <sub>BRIDGESS</sub> Max (V)	V <sub>BRIDSS</sub> Max (V)	I <sub>D</sub> Max (A)	r <sub>DS(on)</sub> Max (Ω)	T <sub>J</sub> Max (°C)	Package Type
NCV7707DQR2G	5.9889		Active	12	28	5.5	40	-	3	150	SSOP-36 EP