

Product Overview

NCV7705: Mirror-Module Driver

For complete documentation, see the data sheet.

The NCV7705 is a powerful driver for automotive body control systems. The device is designed to control several loads in the front door of a vehicle. The monolithic IC is able to control mirror functions like mirror positioning, heating and folding including the electrochromic mirror feature. 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 NCV7705 is controlled through a 24 bit SPI interface with in-frame response.

Features

- Operating range from 5.5 V to 28 V
- Four high-side and four low-side drivers connected as half-bridges
- Four high side lamp drivers
- One high side driver for mirror heating
- 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
- Charge pump output to control an external reverse polarity protection MOSFET

For more features, see the data sheet

Applications

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

End Products

- Automobiles

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	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
NCV7705DQAR2G		AEC Qualified PPAP Capable Pb-free Halide free	Active								SSOP-36 EP

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

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