

## Product Overview

### NCV7703C: Triple Half-Bridge Driver for automotive side-view mirror control.

For complete documentation, see the data sheet.

The NCV7703C is a fully protected Triple Half-Bridge Driver designed specifically for automotive and industrial motion control applications. The three half-bridge drivers have independent control. This allows for high side, low side, and H-Bridge control. H-Bridge control provides forward, reverse, brake, and high impedance states (with EN = 0). The drivers are controlled via a standard Serial Peripheral Interface (SPI).

#### Features

- Ultra Low Quiescent Current in Sleep Mode
  - 3 High-Side and 3 Low-Side Drivers Connected as Half-Bridges
  - Internal Free-Wheeling Diodes
  - Configurable as H-Bridge Drivers
  - SPI Control
  - Daisy Chain Capable
  - Compliance with 5V and 3.3V Systems
  - Overvoltage and Undervoltage Lockout
  - Fault Reporting
  - Shoot-Through Attempt Detection
- For more features, see the data sheet

#### Benefits

- Low battery drain when automobile is off
- Ideal for x-y automotive mirror control
- Limits inductive voltage spikes
- Can drive motors in both directions.
- Microprocessor controlled.
- Ability to add additional loads via the same microprocessor channel
- Works with a variety of microprocessor logic thresholds
- Defines operation in a predictable voltage range
- Reports system faults back to the microprocessor
- Eliminates shoot through programming

#### Applications

- Automotive
- Industrial
- DC Motor Management

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	$V_M$ (V) Min	$V_M$ (V) Max	$V_{CC}$ (V) Min	$V_{CC}$ (V) Max	$I_O$ (A) Min	$I_O$ Peak Max (A)	Control Type	Current Sense	Package Type
NCV7703CD2R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.5	40	3	5.25	3	5	SPI		SOIC-14

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