

## Product Overview

### NCV7450: System Basis Chip with CAN FD, LDO Regulator and HS Driver

For complete documentation, see the data sheet.

The system basis chip (SBC) NCV7450 integrates +5 V / 250 mA LDO with a high-speed CAN transceiver and one high-side driver with diagnostics, directly controlled by dedicated pins.

#### Features

- 5 V  $\pm$ 2% / 250 mA LDO
  - ◆ Current Limitation
  - ◆ Output Voltage Monitoring
- One High-Speed CAN Transceiver
  - ◆ Current Limitation, Reverse Current Protected
  - ◆ Compliant to ISO11898-2:2016
  - ◆ TxDC Time-out
- One High-Side Driver
  - ◆ R<sub>dson</sub> = 300 m  $\Omega$  @ 25°C
  - ◆ Current Limitation
  - ◆ Diagnostic Output
  - ◆ Over-Current Protection
  - ◆ Under-Load Detection
- Direct Control
- Window Watchdog
- Two-level Thermal Shutdown Protection
- AEC-Q100 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

#### Applications

- Automotive
- Industrial Networks

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Data Transmission Standard	Data Rate	Number of Drivers	Number of Receivers	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	t <sub>PLH</sub> Max (μs)	I <sub>O</sub> Max (μA)	I <sub>HH</sub> Max (mA)	Package Type
NCV7450DB0R2G		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	5 Mbps	1	1	4.75	5.25				TSSOP-16 EP

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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