

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_{dson} = 300 m Ω @ 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 _{CC} Min (V)	V _{CC} Max (V)	t _{PLH} Max (μs)	I _O Max (μA)	I _{HH} 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.

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