

NCV7450

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

Product Overview

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
Rdson = 300 m @ 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 _H Max (mA)	Package Type
NCV7450DB0R2G	0.958		Active	CAN	5 Mbps	1	1	4.75	5.25				TSSOP -16 EP