



Product Overview

NCV8509: Sequenced Linear Dual-Voltage Regulator

For complete documentation, see the [data sheet](#)

Product Description

The NCV8509 Series are dual voltage regulators whose output voltages power up in such a manner as to protect the integrity of modern day microcontroller I/O and ESD input structures. Newer generation microcontrollers require two power supplies. One voltage is used for powering the core, while the other powers the I/O. Power up sequencing of these dual voltages is crucial to ensure the integrity of the microprocessor.

Features

- Power Up Sequencing
- Voltage Output Options
 - 5.0 V / 2.6 V
 - 5.0 V / 2.5 V
 - 3.3 V / 1.8 V
- Output Capability 100 mA (both outputs)
- Adjustable Reset Delay
- Dual Drive Reset
- Programmable SLEW Rate Control
- Protections:
 - Thermal Shutdown
 - Current Limit
 - Power Shunt
- AEC Qualified
- PPAP Capable
- Pb-Free Packages are Available

Applications	End Products
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| <ul style="list-style-type: none">• Powertrain• Telematics | <ul style="list-style-type: none">• Automotive |
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Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Package Type
NCV8509PDW18G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	1.8, 3.3	0.1	50	0.6	0.125			SOIC-16W EP
NCV8509PDW18R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	1.8, 3.3	0.1	50	0.6	0.125			SOIC-16W EP
NCV8509PDW25R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	2.5, 5.0	0.1	50	0.6	0.125			SOIC-16W EP
NCV8509PDW26R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	2.5, 5.0	0.1	50	0.6	0.125			SOIC-16W EP

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

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