



Product Overview

NCV8560: LDO Regulator, High Performance, Low-Power, with Enable

For complete documentation, see the data sheet

Product Description

The NCV8560 Low Dropout (LDO) Linear Voltage Regulator provides 150mA of output current at fixed voltage options, or an adjustable output voltage from 5.0 V down to 1.250 V. It is designed for battery powered systems and is qualified for use in automotive applications. It offers high performance features such as low power operation, fast enable response time, and low dropout. The device is designed to be used with low cost ceramic capacitors and is packaged in the DFN6, 3x3 package.

Features	Benefits
<ul style="list-style-type: none">• Output Voltage Options:Adjustable, 1.5 V, 1.8 V, 2.5 V, 2.8 V, 3.0 V, 3.3 V, 3.5 V, 5.0 V• UltraLow Dropout Voltage of 150 mV at 150 mA• Adjustable Output by External Resistors from 5.0 V down to 1.250 V• Fast Enable Turnon Time of 15us• Excellent Line and Load Regulation• High Accuracy up to 1.5% Output Voltage Tolerance over AllOperating Conditions• Typical Noise Voltage of 50 uVrms without a Bypass Capacitor• Wide Supply Voltage Range Operating Range• NCV Prefix for Automotive and Other Applications Requiring Siteand Control Changes	<ul style="list-style-type: none">• Maintains full operation near end of battery life.• Customizable for all system voltages.• Faster system powerup.• Adaptable to many systems.• Prevents system reboots and spurious performance.• Predictable system performance.• Good for the environment.• Saves external voltage divider.

Applications	End Products
<ul style="list-style-type: none">• Car entertainment systems• Noise Sensitive Circuits VCO, RF Stages, etc	<ul style="list-style-type: none">• Car radio and satellite receivers• Lane detection Cameras• GPS units

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
NCV8560MN150R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	0.15	6	0.15	0.13	55	50	DFN-6
NCV8560MN180R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	0.15	6	0.125	0.14	55	50	DFN-6
NCV8560MN250R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.5	0.15	6	0.1	0.14	55	50	DFN-6
NCV8560MN280R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.8	0.15	6	0.075	0.14	55	50	DFN-6
NCV8560MN300R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3	0.15	6	0.075	0.14	55	50	DFN-6
NCV8560MN330R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.15	6	0.075	0.145	55	50	DFN-6
NCV8560MN350R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.5	0.15	6	0.075	0.145	55	50	DFN-6
NCV8560MN500R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	6	0.075	0.145	55	50	DFN-6
NCV8560MNADJR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	0.15	6	0.075	0.1	55	50	DFN-6
NCV8560SN130T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.3	0.15	6	0.175	0.13	55	50	TSOP-5 / SOT-23-5
NCV8560SN150T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	0.15	6	0.15	0.13	55	50	TSOP-5 / SOT-23-5

NCV8560SN180T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	0.15	6	0.125	0.14	55	50	TSOP-5 / SOT-23-5
NCV8560SN250T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.5	0.15	6	0.1	0.14	55	50	TSOP-5 / SOT-23-5
NCV8560SN280T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.8	0.15	6	0.075	0.14	55	50	TSOP-5 / SOT-23-5
NCV8560SN300T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3	0.15	6	0.075	0.14	55	50	TSOP-5 / SOT-23-5
NCV8560SN330T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.15	6	0.075	0.145	55	50	TSOP-5 / SOT-23-5
NCV8560SN350T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.5	0.15	6	0.075	0.145	55	50	TSOP-5 / SOT-23-5
NCV8560SN500T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	6	0.075	0.145	55	50	TSOP-5 / SOT-23-5
NCV8560SNADJT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	0.15	6	0.075	0.1	55	50	TSOP-5 / SOT-23-5

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

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