



Product Overview

NCV8535: LDO Regulator, Ultra High Accuracy, Low Iq, 500 mA, with Enable

For complete documentation, see the data sheet

Product Description

The NCV8535 Low Quiescent Current Low Dropout (LDO) Linear Voltage Regulator is a high performance, LDO regulator. With accuracy of +/-0.9% over line and load and ultra-low quiescent current and noise it encompasses all of the necessary features required by today's consumer electronics. This unique device is guaranteed to be stable without a minimum load current requirement and stable with any type of capacitor as small as 1.0 uF. The NCV8535 also comes equipped with sense and noise reduction pins to increase the overall utility of the device. The NCV8535 offers reverse bias protection.

Features

- High Accuracy Over Line and Load (+/-0.9% at 25C)
- Ultra-Low Dropout Voltage at Full Load (260 mV typ.)
- No Minimum Output Current Required for Stability
- Low Noise (31 uVrms w/10 nF Cnr and 51 uVrms w/out Cnr)
- Low Shutdown Current (0.07 uA)
- Reverse Bias Protected
- 2.6 V to 12 V Supply Range
- Thermal Shutdown Protection
- Current Limitation
- Requires Only 1.0 uF Output Capacitance for Stability

Applications	End Products
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| <ul style="list-style-type: none">• PCMCIA Card• Networking Systems, DSL/Cable Modems• Cable Set-Top Box• Automotive infotainment• Automotive Dashboard electronics | <ul style="list-style-type: none">• Cellular Phones• Camcoders and Cameras• Displays and Monitors |
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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
NCV8535MN150R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	0.5	12	1.43	0.19	55	31	DFN-10
NCV8535MN180R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	0.5	12	1.13	0.19	55	33	DFN-10
NCV8535MN190R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.9	0.5	12	0.34	0.19	55	33	DFN-10
NCV8535MN250R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.5	0.5	12	0.34	0.19	55	35	DFN-10
NCV8535MN280R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.8	0.5	12	0.34	0.19	55	36	DFN-10
NCV8535MN285R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.85	0.5	12	0.34	0.19	55	40	DFN-10
NCV8535MN300R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3	0.5	12	0.34	0.19	55	37	DFN-10
NCV8535MN330R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.5	12	0.34	0.19	55	46	DFN-10
NCV8535MN350R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.5	0.5	12	0.34	0.19	55	47	DFN-10
NCV8535MN500R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.5	12	0.34	0.19	55	58	DFN-10
NCV8535MNADJR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	0.5	12	0.34	0.19	55	26	DFN-10

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

