



Product Overview

NCV4274: Linear Voltage Regulator, LDO, 400 mA

For complete documentation, see the data sheet

Product Description

The NCV4274 and NCV4274A are precision micro-power voltage regulators with output current capability of 400 mA available in the SOT-223, DPAK and D2PAK packages. The output voltage 8.5V, 5.0V, 3.3V or 2.5V are accurate within $\pm 2\%$ or $\pm 4\%$ depending on the version, with a maximum dropout voltage of 0.5V with an input up to 40 V. Low Quiescent Current is a feature drawing only 150 μ A with a 1 mA load.

This part is ideal for automotive and all battery operated microprocessor equipment. The regulator is protected against reverse battery, short circuit, thermal overload conditions and can withstand load dump transients making it suitable for use in automotive environments.

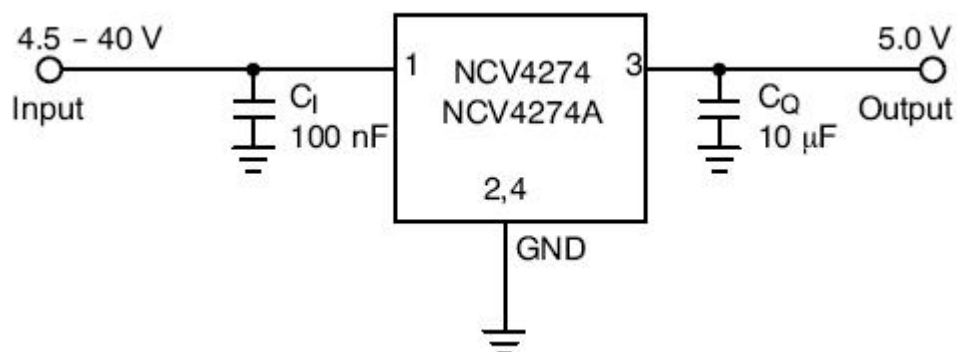
Features	Benefits
<ul style="list-style-type: none">2.5, 3.3 V, 5.0 V, 8.5 V, 2.0% Output Options 2.5, 3.3 V, 5.0 V, 4.0% Output Options 400 mA Output CurrentProtections: +60 V Peak Transient Voltage -42V Reverse Voltage Short Circuit Thermal OverloadVery Low Dropout VoltageAEC-Q100 Qualified	<ul style="list-style-type: none">Tight regulation limits; design flexibilityNo external components required to enable protections required within any automotive applicationsCan operate during cranking at low input voltageMeet automotive qualification standard

Applications	End Products
<ul style="list-style-type: none">Engine Control Unit, PowertrainBody and Chassis	<ul style="list-style-type: none">Automotive

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
NCV4274ADS33R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.4	45	1.2	0.145	60		D ² PAK-3
NCV4274ADS50R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.4	45	0.25	0.19	60		D ² PAK-3
NCV4274ADS85R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	8.5	0.4	45	0.25	0.195	60		D ² PAK-3
NCV4274ADT33RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.4	45	1.2	0.145	60		DPAK-3
NCV4274ADT50RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.4	45	0.25	0.19	60		DPAK-3
NCV4274AST25T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.5	0.4	45	2	0.14	60		SOT-223-4 / TO-261-4
NCV4274AST33T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.4	45	1.2	0.145	60		SOT-223-4 / TO-261-4

Application Diagram



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

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