



Product Overview

NCV4276B: Linear Voltage Regulator, LDO, 400 mA

For complete documentation, see the data sheet

Product Description

The NCV4276B is a 400 mA output current integrated low dropout regulator family designed for use in harsh automotive environments. It includes wide operating temperature and input voltage ranges. The device is offered with fixed and adjustable voltage versions available in 2% output voltage accuracy. It has a high peak input voltage tolerance and reverse input voltage protection. It also provides overcurrent protection, overtemperature protection and inhibit for control of the state of the output voltage. The NCV4276B is available in DPAK and D2PAK surface mount package. The output is stable over a wide output capacitance and ESR range. The NCV4276B has improved startup behavior during input voltage transients.

Features	Benefits
<ul style="list-style-type: none">• Output Current up to 400 mA• Enable• Protections:<ul style="list-style-type: none">+45 V Peak Transient Voltage-42V Reverse VoltageShort CircuitThermal Overload• AEC-Q100 Qualified• 500 mV (max) Dropout Voltage• Fixed 5.0 V, 3.3 V and Adjustable Voltage Version (from 2.5 V to 20 V) 2% Output Voltage	<ul style="list-style-type: none">• Our vast portfolio of automotive regulators allows you to select the one which fits your application.• Save battery life - quiescent current down to 10µA max.• No external components required to enable protections required within any automotive applications.• Meets automotive qualification requirements.• Regulates during cranking.
Applications	End Products
<ul style="list-style-type: none">• Body and Chassis• Engine Control Unit• Powertrain	<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
NCV4276BDS33R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.4	45	0.25	0.13	70		D ² PAK-5
NCV4276BDS50R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.4	45	0.25	0.13	70		D ² PAK-5
NCV4276BDSADJR4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	0.4	45	0.25	0.13	70		D ² PAK-5
NCV4276BDT33RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.4	45	0.25	0.13	70		DPAK-5
NCV4276BDT50RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.4	45	0.25	0.13	70		DPAK-5
NCV4276BDTADJRKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	0.4	45	0.25	0.13	70		DPAK-5

Application Diagram

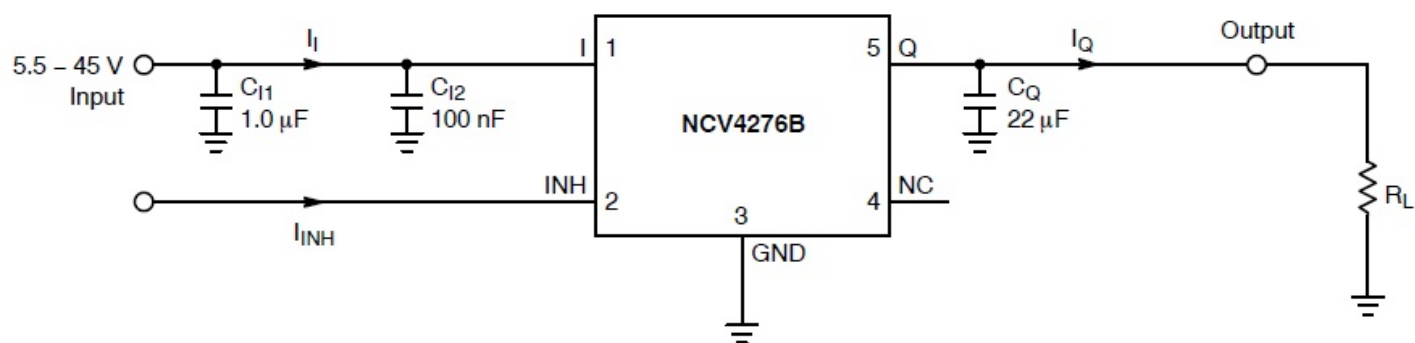
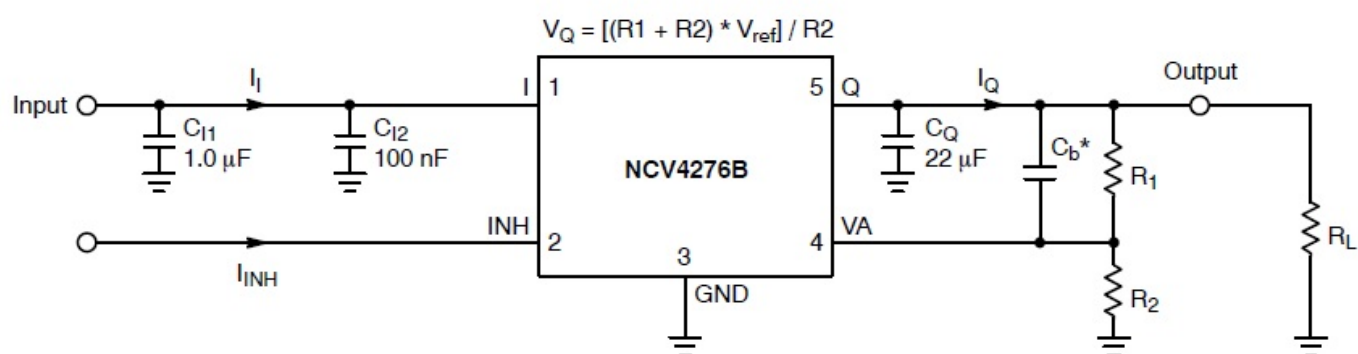


Figure 3. Applications Circuit; Fixed Voltage Version



C_b^* – Required if usage of low ESR output capacitor C_Q is demand, see Regulator Stability Considerations section

Figure 4. Applications Circuit; Adjustable Voltage Version

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