

## Product Overview

### NCV4275C: LDO Linear Voltage Regulator with Reset and Delay, 450 mA

For complete documentation, see the data sheet

#### Product Description

The NCV4275C is an integrated low dropout regulator designed for use in harsh automotive environments. It includes wide operating temperature and input voltage ranges. The output is regulated at 5.0 V or 3.3 V and is rated to 450 mA of output current. It also provides a number of features, including overcurrent protection, overtemperature protection and a programmable microprocessor reset. The NCV4275C is available in the DPAK and D2PAK surface mount packages. The output is stable over a wide output capacitance and ESR range. The NCV4275C is pin for pin compatible with NCV4275A.

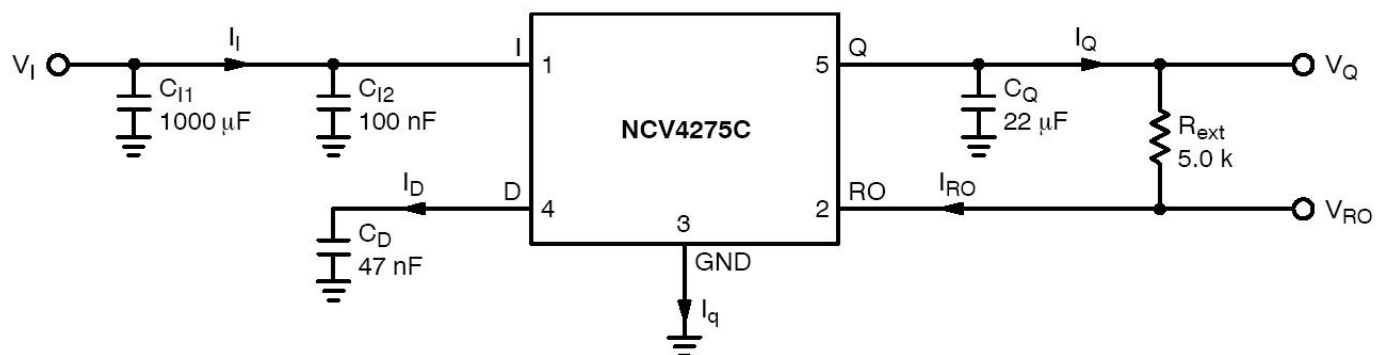
Features	Benefits
<ul style="list-style-type: none"> <li>5.0 V and 3.3 V, 2% Output Voltage Accuracy with 450 mA Output Current</li> <li>500 mV (max) Dropout Voltage</li> <li>Active Reset Output</li> <li>Fault Protection <ul style="list-style-type: none"> <li>+45 V Peak Transient Voltage</li> <li>-42 V Reverse Voltage</li> <li>Short Circuit Protection</li> <li>Thermal Overload Protection</li> </ul> </li> <li>Very Low Current Consumption</li> <li>AEC-Q100 Qualified and PPAP Capable</li> </ul>	<ul style="list-style-type: none"> <li>Can operate with newest microprocessor</li> <li>Can operate during cranking at low input voltage</li> <li>Integrated control of microprocessor power supply - lower cost and space requirements</li> <li>No external components required to enable protections required within any automotive applications</li> </ul>

Applications	End Products
<ul style="list-style-type: none"> <li>Auto Body Electronics</li> </ul>	<ul style="list-style-type: none"> <li>Automotive</li> </ul>

#### Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O</sub> Typ (A)	V <sub>I</sub> Max (V)	V <sub>DO</sub> Typ (V)	I <sub>q</sub> Typ (mA)	PSRR (dB)	Noise (μV <sub>rms</sub> )	Package Type
NCV4275CDS33R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.45	45	0.25	0.15	60		D <sup>2</sup> PAK-5
NCV4275CDS50R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.45	45	0.25	0.15	60		D <sup>2</sup> PAK-5
NCV4275CDT33RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.45	45	0.25	0.15	60		DPAK-5
NCV4275CDT50RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.45	45	0.25	0.15	60		DPAK-5

# APPLICATION INFORMATION



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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