



## Product Overview

### NCV4275A: Linear Voltage Regulator, LDO, 450 mA, with Reset

For complete documentation, see the data sheet

#### Product Description

The NCV4275A 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 is pin for pin compatible with NCV4275 and can be used as replacement of this device when EMC sensitivity is critical. It also provides a number of features, including overcurrent protection, overtemperature protection and a programmable microprocessor reset. The NCV4275A is available in the DPAK and D<sup>2</sup>PAK surface mount packages. The output is stable over a wide output capacitance and ESR range.

#### Features

- 5.0 V and 3.3 V, 2% Output Voltage Accuracy with 450 mA Output Current
- 500 mV (max) Dropout Voltage
- Active Reset Output  
Reset Low Down to  $V_Q = 1.0$  V
- Fault Protection  
+45 V Peak Transient Voltage  
-42 V Reverse Voltage  
Short Circuit Protection  
Thermal Overload Protection
- AEC-Q100 Qualified
- Pin Compatible with NCV4275

#### Benefits

- Can operate with newest microprocessor.
- Can operate during cranking at low input voltage.
- Integrated control of microprocessor power supply - lower cost and space requirements
- No external components required to enable protections required within any automotive applications.

#### Applications

- Auto Body Electronics
- Engine Control Unit

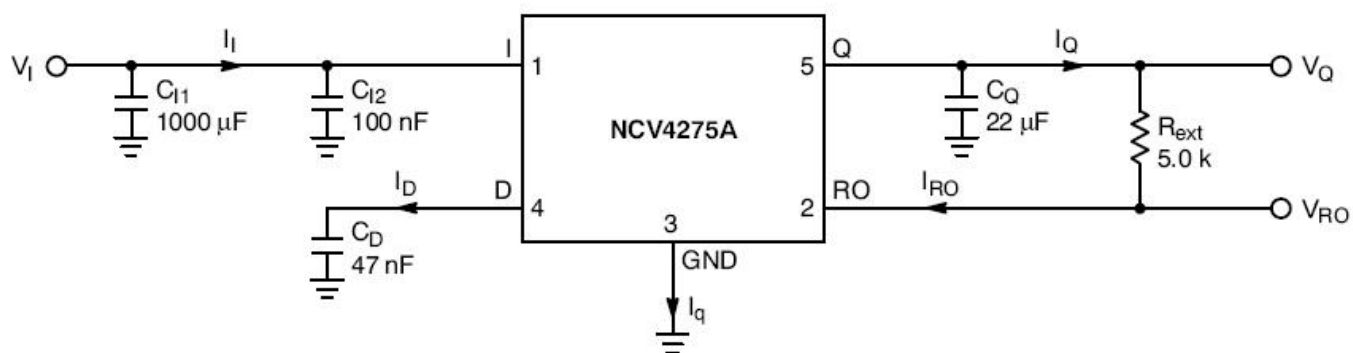
#### End Products

- 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 ( $\mu V_{rms}$ )	Package Type
NCV4275ADS33R4G	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
NCV4275ADS50R4G	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
NCV4275ADT33RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.45	45	0.25	0.15	60		DPAK-5
NCV4275ADT50RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.45	45	0.25	0.15	60		DPAK-5

## Application Diagram



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

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