



## Product Overview

### NCP4641: Linear Voltage Regulator, LDO, Wide Input Range, 150 mA

For complete documentation, see the data sheet

#### Product Description

The NCP4641 is a 150mA CMOS Voltage Regulator with a wide input voltage range of 4V to 36V and a maximum input tolerance up to 50V. The device has a low quiescent current and its multiple protection features include a peak current limit circuit, a short circuit current limit and a thermal shutdown mechanism. The device is available a SOT-89-5 where space is at a premium. The SOIC8-TL package which has greater power dissipation capability can be introduced on request. Output voltages in 100mV steps are available from 2.0V to 12V. Contact your sales representative with specific requirements.

#### Features

- Input voltage range from 4V to 36V
- Low I<sub>q</sub> at 9uA typical
- Enable pin allows the device to be disabled
- Output Voltage Range: 2.0V to 12.0V in 100mV steps.
- Built in peak and short current limit circuit
- Maximum Input Voltage tolerance of 50V

#### Benefits

- High tolerance for high input Voltage.
- Longer battery life or reduced power dissipation
- In Shutdown mode, current consumption is reduced to 0.1uA typical.

#### End Products

#### 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
NCP4641H030T1G	Pb-free Halide free	Active	Single	Positive	3	0.15	35	0.2	0.009	27	112	SOT-89-5
NCP4641H033T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.15	35	0.2	0.009	27	112	SOT-89-5
NCP4641H050T1G	Pb-free Halide free	Active	Single	Positive	5	0.15	35	0.2	0.009	27	112	SOT-89-5
NCP4641H080T1G	Pb-free Halide free	Active	Single	Positive	8	0.15	35	0.2	0.009	27	112	SOT-89-5

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

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