



## Product Overview

### NCP4626: Linear Voltage Regulator, LDO, 300 mA, with Reverse Current Protection

For complete documentation, see the [data sheet](#)

#### Product Description

The NCP4626 is a CMOS 300 mA low dropout linear regulator with a wide input voltage range of 3.5 V to 16.0 V, low supply current and high output voltage accuracy. Using an ECO mode selector pin the device can be operated in low power mode to reduce quiescent current or fast mode for better transient response and lower dropout. The NCP4626 is suitable for applications where the VOUT pin voltage may be higher than the VIN pin voltage as it is protected against reverse current. The device has a maximum input voltage tolerance of 18.0 V, comes with or without an auto-discharge feature on the output, and is available in a choice of XDFN, SOT89 and SOT23 packages.

#### Features

- Operating Input Voltage Range: 3.5V to 16.0V
- Output Voltage Range: 2.0V to 15.0V (available in 0.1V steps)
- Low Quiescent current 6 uA typ. in Low Power Mode
- High PSRR: 60 dB at 1kHz
- Reverse Current protection
- Dropout Voltage: 550 mV typ (fast mode) 700 mV typ (low power mode)
- Current Fold Back Protection
- Thermal Shutdown Protection
- Available in 1.6x1.6 XDFN6, SOT89-5 and SOT-23-5 packages

#### Benefits

- Wide range of Input Voltage
- 130+ output voltage options available
- Excellent choice for battery operating applications
- Very good compromise between PSRR and Quiescent current
- Device can withstand reverse voltage ( $V_{out} > V_{in}$ ).

#### Applications

- Digital Home Appliances
- Audio Visual Equipment
- Battery backup circuits

#### End Products

- TV, Entertainment system, Playstation, XBOX, DVD player, Blu-ray player
- PSP, Cellphone, Laptop, GPS

## 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
NCP4626DMX030TCG	Pb-free Halide free	Active	Single	Positive	3	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626DMX033TCG	Pb-free Halide free	Active	Single	Positive	3.3	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626DMX045TCG	Pb-free Halide free	Active	Single	Positive	4.5	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626DMX050TCG	Pb-free Halide free	Active	Single	Positive	5	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626DSN030T1G	Pb-free Halide free	Active	Single	Positive	3	0.3	18	0.75	0.006	70	90	SOT-23-5
NCP4626DSN033T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.3	18	0.75	0.006	70	90	SOT-23-5
NCP4626DSN045T1G	Pb-free Halide free	Active	Single	Positive	4.5	0.3	18	0.75	0.006	70	90	SOT-23-5
NCP4626DSN050T1G	Pb-free Halide free	Active	Single	Positive	5	0.3	18	0.75	0.006	70	90	SOT-23-5
NCP4626HMX030TCG	Pb-free Halide free	Active	Single	Positive	3	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626HMX033TCG	Pb-free Halide free	Active	Single	Positive	3.3	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626HMX045TCG	Pb-free Halide free	Active	Single	Positive	4.5	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626HMX050TCG	Pb-free Halide free	Active	Single	Positive	5	0.3	18	0.75	0.006	70	90	XDFN-6
NCP4626HSN030T1G	Pb-free Halide free	Active	Single	Positive	3	0.3	18	0.75	0.006	70	90	SOT-23-5
NCP4626HSN033T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.3	18	0.75	0.006	70	90	SOT-23-5
NCP4626HSN045T1G	Pb-free Halide free	Active	Single	Positive	4.5	0.3	18	0.75	0.006	70	90	SOT-23-5
NCP4626HSN050T1G	Pb-free Halide free	Active	Single	Positive	5	0.3	18	0.75	0.006	70	90	SOT-23-5

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

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