



Product Overview

NCP4625: Linear Voltage Regulator, LDO, 10 V Input, 300 mA

For complete documentation, see the data sheet

Product Description

The NCP4625 is a CMOS Linear voltage regulator with 300 mA output current capability. The device is capable of operating with input voltages up to 10 V, with high output voltage accuracy and a low temperature drift coefficient. The NCP4625 is easy to use, with output current foldback protection and a thermal shutdown circuit included. A Chip Enable function is included to save power by lowering supply current. Output voltages are available in 100mV steps between 1.2V and 6.0V. The device comes in a choice of three packages: SC70-5, SOT23-5 and SOT89-5, and is available in two output configurations: standard output or auto-discharge. Contact your local sales representative for a specific voltage, package and output configuration.

Features

- Operating Input Voltage Range: 2.6 V to 10 V
- Low Supply Current: 23 uA at zero load
- Current Fold Back and Thermal Shutdown Protection
- Chip enable feature
- High PSRR: 70 dB at 1 kHz

Benefits

- Good choice for product products with 4 'A' type batteries
- Maximize battery life
- Suitable for a wide range of applications
- lowers standby current to less than 1uA to save power

Applications

- Battery products powered by Two Lithium Ion cells

End Products

- Toys, industrial products

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
NCP4625DSN12T1G	Pb-free Halide free	Active	Single	Positive	1.2	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625DSN18T1G	Pb-free Halide free	Active	Single	Positive	1.8	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625DSN28T1G	Pb-free Halide free	Active	Single	Positive	2.8	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625DSN30T1G	Pb-free Halide free	Active	Single	Positive	3	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625DSN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625DSN50T1G	Pb-free Halide free	Active	Single	Positive	5	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625HSN12T1G	Pb-free Halide free	Active	Single	Positive	1.2	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625HSN18T1G	Pb-free Halide free	Active	Single	Positive	1.8	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625HSN28T1G	Pb-free Halide free	Active	Single	Positive	2.8	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625HSN30T1G	Pb-free Halide free	Active	Single	Positive	3	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625HSN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.3	10	0.2	0.023	70	85	SOT-23-5
NCP4625HSN50T1G	Pb-free Halide free	Active	Single	Positive	5	0.3	10	0.2	0.023	70	85	SOT-23-5

