



Product Overview

NCP4682: Linear Voltage Regulator, LDO, Ultra Low Iq, 150 mA

For complete documentation, see the data sheet

Product Description

The NCP4682 and NCP4685 are CMOS Low Dropout Linear Voltage Regulators with 150 mA output current capability. The devices have high output voltage accuracy, a 1 μ A (typ.) ultra low supply current and high ripple rejection. Current fold-back protection is integrated in the devices to protect against over current and short current conditions. A Chip Enable (NCP4682 only) function is included to save power by further lowering supply current, which is advantageous for battery powered applications. The NCP4685 is optimized for the lowest quiescent current possible in applications where the device is always on.

Features	Benefits
<ul style="list-style-type: none">• Operating Input Voltage: 1.7 V to 5.25 V• Output voltage Range: 1.2V to 3.3 V (available in 0.1 V steps)• 0.8% Output Voltage Accuracy• Current Fold Back Protection• Low Dropout: 240mV Typ. at 150 mA• Supply Current of 1 μA	<ul style="list-style-type: none">• Well suited to battery powered applications• Contact your local sales office for custom voltage options• High voltage accuracy for voltage sensitive devices

Applications	End Products
<ul style="list-style-type: none">• Battery-Powered Equipment• Point of Load Voltage Regulation	<ul style="list-style-type: none">• Networking and Communication Equipment• Cameras, DVRs, STB and Camcorders• Home Appliances

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
NCP4682DMU12TCG	Pb-free Halide free	Active	Single	Positive	1.2	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DMU15TCG	Pb-free Halide free	Active	Single	Positive	1.5	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DMU18TCG	Pb-free Halide free	Active	Single	Positive	1.8	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DMU19TCG	Pb-free Halide free	Active	Single	Positive	1.9	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DMU25TCG	Pb-free Halide free	Active	Single	Positive	2.5	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DMU28TCG	Pb-free Halide free	Active	Single	Positive	2.8	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DMU30TCG	Pb-free Halide free	Active	Single	Positive	3	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DMU33TCG	Pb-free Halide free	Active	Single	Positive	3.3	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682DSN30T1G	Pb-free Halide free	Active	Single	Positive	3	0.15	6	0.24	0.001	30	70	SOT-23-5
NCP4682DSN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.15	6	0.24	0.001	30	70	SOT-23-5
NCP4682HMU18TCG	Pb-free Halide free	Active	Single	Positive	1.8	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682HMU28TCG	Pb-free Halide free	Active	Single	Positive	2.8	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4682HMU33TCG	Pb-free Halide free	Active	Single	Positive	3.3	0.15	6	0.24	0.001	30	70	UDFN-4
NCP4685EMU30TCG	Pb-free	Active	Single	Positive	3	0.15	6	0.24	0.001	30	70	UDFN-4

For more information please contact your local sales support at www.onsemi.com

Created on: 7/11/2015