



Product Overview

NCP553: Linear Voltage Regulator, LDO, CMOS Low Iq, NOCAP™, 80 mA

For complete documentation, see the data sheet

Product Description

This series of fixed output NOCAP linear regulators are designed for handheld communication equipment and portable battery powered applications which require low quiescent. This series features an ultra-low quiescent current of 2.8uA. Each device contains a voltage reference unit, an error amplifier, a PMOS power transistor, resistors for setting output voltage, current limit, and temperature limit protection circuits.

These voltage regulators have been designed to be used with low cost ceramic capacitors. The devices have the ability to operate without an output capacitor. The devices are housed in the micro-miniature SC82-AB surface mount package. Standard voltage versions are 1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, and 5.0V. Other voltages are available in 100mV steps.

Features

- Low Quiescent Current of 2.8uA Typical
- Low Output Voltage Option
- Output Voltage Accuracy of 2.0%

Applications

- Battery Powered Consumer Products
- HandHeld Instruments

End Products

- Camcorders and Cameras

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
NCP553SQ15T1G	Pb-free Halide free	Active	Single	Positive	1.5	0.08	12	0.7				SC-82AB-4
NCP553SQ18T1G	Pb-free Halide free	Active	Single	Positive	1.8	0.08	12	0.7				SC-82AB-4
NCP553SQ25T1G	Pb-free Halide free	Active	Single	Positive	2.5	0.08	12	0.7				SC-82AB-4
NCP553SQ27T1G	Pb-free Halide free	Active	Single	Positive	2.7	0.08	12	0.7				SC-82AB-4
NCP553SQ28T1G	Pb-free Halide free	Active	Single	Positive	2.8	0.08	12	0.7				SC-82AB-4
NCP553SQ30T1G	Pb-free Halide free	Active	Single	Positive	3	0.08	12	0.7				SC-82AB-4
NCP553SQ33T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.08	12	0.7				SC-82AB-4
NCP553SQ50T1G	Pb-free Halide free	Active	Single	Positive	5	0.08	12	0.7				SC-82AB-4

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

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