Product Overview

NCV553: Linear Voltage Regulator, CMOS Low Iq, NOCAP™, 80 mA

For complete documentation, see the data sheet

Product Description

This series of fixed output NOCAP™ linear voltage 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 2.8 µA. 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. The NCP552 series provides an enable pin for ON/OFF control.

These linear 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 5.0 V. Other voltages are available in 100 mV steps.

Features

- Low Quiescent Current of 2.8 µA Typical
- Low Output Voltage Option
- Output Voltage Accuracy of 2.0%
- Industrial Temperature Range of –40°C to 85°C
- NCP552 Provides an Enable Pin
- Pb-Free Packages are Available*

Applications

- Battery Powered Consumer Products
- Hand–Held Instruments
- 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
NCV553SQ15T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	0.08	12	0.7	0.0028		90	SC-82AB-4
NCV553SQ50T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.08	12	0.7	0.0028		90	SC-82AB-4

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

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