



Product Overview

NCP693: Linear Voltage Regulator, CMOS LDO, 1.0 A

For complete documentation, see the data sheet

Product Description

The NCP693 series of fixed output low dropout (LDO) linear voltage regulators are designed for portable battery powered applications with high output current requirement from 300mA to 1A, and low output voltages. The devices has a very low supply current of 65uA at no load, and a standby mode with ultra low supply current of < 0.15 uA can be realized with the chip enable function. The device incorporates a current limit circuit and a thermal-shutdown feature. The device is housed in a very small DFN 1.8 mm x2.0 mm, 0.50 mm pitch package. Standard voltage versions are 0.8V, 1.0V, 1.2V, 2.5V and 3.3V. Other options can be made available from 0.8V to 5.0V in 0.1 V steps.

Features

- Very low I_q - 65 uA typical at no load.
- Small 1.8 mm x 2.0 mm DFN package
- Maximum Operating Voltage of 6.5 V
- Low Output Voltage Option down to 0.8 V
- High Accuracy Output Voltage of 1.0%
- Built in Auto Discharge Function for D Version

Benefits

- Ideal for low power and battery applications
- Ideal for space constrained applications

Applications

- Battery Powered Instruments
- STB, Cable modems
- Portable communication equipments

End Products

- Camcorders, Cameras and computer accessories

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
NCP693DMN08TCG	Pb-free	Active	Single	Positive	0.8	1	7	1.1	0.065	70	45	UDFN-6
NCP693DMN10TCG	Pb-free	Active	Single	Positive	1	1	7	1	0.065	70	45	UDFN-6
NCP693DMN12TCG	Pb-free	Active	Single	Positive	1.2	1	7	0.9	0.065	70	45	UDFN-6
NCP693DMN25TCG	Pb-free	Active	Single	Positive	2.5	1	7	0.7	0.065	70	45	UDFN-6
NCP693DMN33TCG	Pb-free	Active	Single	Positive	3.3	1	7	0.45	0.065	70	45	UDFN-6
NCP693HMN08TCG	Pb-free	Active	Single	Positive	0.8	1	7	1.1	0.065	70	45	UDFN-6
NCP693HMN10TCG	Pb-free	Active	Single	Positive	1	1	7	1	0.065	70	45	UDFN-6
NCP693HMN12TCG	Pb-free	Active	Single	Positive	1.2	1	7	0.9	0.065	70	45	UDFN-6
NCP693HMN25TCG	Pb-free	Active	Single	Positive	2.5	1	7	0.7	0.065	70	45	UDFN-6
NCP693HMN33TCG	Pb-free	Active	Single	Positive	3.3	1	7	0.45	0.065	70	45	UDFN-6

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

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