



Product Overview

NCP694: Linear Voltage Regulator, VLDO, 1.0 A

For complete documentation, see the data sheet

Product Description

The NCP694 is a CMOS low dropout (LDO) linear voltage regulator, capable of providing 1 A of output current and optimized for output voltages below 1.2 V. It offers features such as excellent load regulation (3 mV typ.) low quiescent current (60 uA typ.) and excellent low dropout performance. A Chip Enable function can be used to place the device in standby mode, thus reducing the current consumption to ultra low levels. Ripple rejection of 70 dB typ. along with a current limit and thermal protection makes this a very robust and versatile device. The part is available in an adjustable version and in fixed voltage options of 0.8 V, 1.0 V, 1.2 V, 2.5 V, 3.3 V and is housed in small but power efficient HSON6 and SOT89 5 pin packages. Other fixed voltage options may be made available on request, from 0.8 V to 5.0 V in 0.1 V increments: please contact your local sales office.

Features	Benefits
<ul style="list-style-type: none">• Minimum Output Voltage Down to 0.8 V for Fix Version and 1.0 V for Adjustable Version• Built in Auto Discharge Function for D Version• Standby Mode With Low Consumption• Other fixed voltage options may be available on request - from 0.8 V to 5.0 V in 0.1 V steps.• Maximum Operating Voltage of 6.0 V• Load Regulation 3 mV at 1 A Output Current	<ul style="list-style-type: none">• Suitable for use in generating low voltage rails for FPGA or MCU devices.• Prevents reverse current flow when the device is disabled• Excellent choice for battery applications• Contact the factory for additional voltage options.

Applications	End Products
<ul style="list-style-type: none">• Battery Powered Instruments• Set top boxes, game consoles, DVD players, cable boxes	<ul style="list-style-type: none">• Camcorders, Cameras and compute accessories.• Portable communication equipment, cable modems

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _a Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Package Type
NCP694D08HT1G	Pb-free Halide free	Active	Single	Positive	0.8	1	6	0.72	0.06	70	30	SOT-89-5
NCP694D10HT1G	Pb-free Halide free	Active	Single	Positive	1	1	6	0.56	0.06	70	30	SOT-89-5
NCP694D12HT1G	Pb-free Halide free	Active	Single	Positive	1.2	1	6	0.56	0.06	70	30	SOT-89-5
NCP694D25HT1G	Pb-free Halide free	Active	Single	Positive	2.5	1	6	0.32	0.06	70	30	SOT-89-5
NCP694D33HT1G	Pb-free Halide free	Active	Single	Positive	3.3	1	6	0.18	0.06	70	30	SOT-89-5
NCP694DADJHT1G	Pb-free Halide free	Active	Single	Positive	Adjustable	1	6	0.32	0.06	70	30	SOT-89-5
NCP694DSAN08T1G	Pb-free Halide free	Active	Single	Positive	0.8	1	6	0.72	0.06	70	30	SON-6 / HSON-6
NCP694DSAN10T1G	Pb-free Halide free	Active	Single	Positive	1	1	6	0.56	0.06	70	30	SON-6 / HSON-6
NCP694DSAN12T1G	Pb-free Halide free	Active	Single	Positive	1.2	1	6	0.56	0.06	70	30	SON-6 / HSON-6
NCP694DSAN25T1G	Pb-free Halide free	Active	Single	Positive	2.5	1	6	0.32	0.06	70	30	SON-6 / HSON-6
NCP694DSAN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	1	6	0.18	0.06	70	30	SON-6 / HSON-6
NCP694DSANADJT1G	Pb-free Halide free	Active	Single	Positive	Adjustable	1	6	0.32	0.06	70	30	SON-6 / HSON-6
NCP694H08HT1G	Pb-free Halide free	Active	Single	Positive	0.8	1	6	0.72	0.06	70	30	SOT-89-5
NCP694H10HT1G	Pb-free Halide free	Active	Single	Positive	1	1	6	0.56	0.06	70	30	SOT-89-5
NCP694H12HT1G	Pb-free Halide free	Active	Single	Positive	1.2	1	6	0.56	0.06	70	30	SOT-89-5
NCP694H25HT1G	Pb-free Halide free	Active	Single	Positive	2.5	1	6	0.32	0.06	70	30	SOT-89-5
NCP694H33HT1G	Pb-free Halide free	Active	Single	Positive	3.3	1	6	0.18	0.06	70	30	SOT-89-5
NCP694HADJHT1G	Pb-free Halide free	Active	Single	Positive	Adjustable	1	6	0.32	0.06	70	30	SOT-89-5
NCP694HSAN08T1G	Pb-free Halide free	Active	Single	Positive	0.8	1	6	0.72	0.06	70	30	SON-6 / HSON-6
NCP694HSAN10T1G	Pb-free Halide free	Active	Single	Positive	1	1	6	0.56	0.06	70	30	SON-6 / HSON-6
NCP694HSAN12T1G	Pb-free Halide free	Active	Single	Positive	1.2	1	6	0.56	0.06	70	30	SON-6 / HSON-6
NCP694HSAN25T1G	Pb-free Halide free	Active	Single	Positive	2.5	1	6	0.32	0.06	70	30	SON-6 / HSON-6
NCP694HSAN33T1G	Pb-free Halide free	Active	Single	Positive	3.3	1	6	0.18	0.06	70	30	SON-6 / HSON-6
NCP694HSANADJT1G	Pb-free Halide free	Active	Single	Positive	Adjustable	1	6	0.32	0.06	70	30	SON-6 / HSON-6

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

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