



Product Overview

NCP3334: Linear Voltage Regulator, LDO, Low Iq, 500 mA (Adjustable Output)

For complete documentation, see the data sheet

Product Description

The NCP3334 is a high performance, low dropout (LDO) linear voltage regulator. With accuracy of $\pm 0.9\%$ over line and load and ultra-low quiescent current and noise it encompasses all of the necessary features required by today's consumer electronics. This unique device is guaranteed to be stable without a minimum load current requirement and stable with any type of capacitor as small as 1.0 μF . The NCP3334 offers reverse bias protection.

Features

- High Accuracy Over Line and Load ($\pm 0.9\%$ at 25°C)
- Low Dropout Voltage of 340 mV maximum at 500 mA
- Low Noise of 38 μV_{rms}
- Low Shutdown Current (0.07 μA)
- Reverse Bias Protected
- 2.6 V to 12 V Supply Range
- Thermal Shutdown Protection
- Current Limitation
- Requires only 1.0 μF Output Capacitance for Stability
- Stable with any type of capacitor, including MLCC

Applications

- PCMCIA Card
- Cellular Phones
- Camcoders and Cameras
- Networking Systems, DSL/Cable Modems
- Cable Set-Top Box

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
NCP3334DADJG	Pb-free Halide free	Active	Single	Positive	Adjustable	0.5	12	0.34	0.19	55	38	SOIC-8
NCP3334DADJR2G	Pb-free Halide free	Active	Single	Positive	Adjustable	0.5	12	0.34	0.19	55	38	SOIC-8

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

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