

NCP3337

LDO Regulator, 500 mA, Low Iq, with Power Good

Product Overview

For complete documentation, see the data sheet.

The NCP3337 is a high performance, low dropout 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 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 NCP3337 also comes equipped with sense and noise reduction pins to increase the overall utility of the device. The NCP3337 offers reverse bias protection.

Features

- High Accuracy Over Line and Load ($\pm 0.9\%$ at 25C)
- Ultra Low Dropout Voltage at Full Load (260 mV typ)
- No Minimum Output Current Required for Stability
- Low Noise
- Low Shutdown Current
- Reverse Bias Protected
- 2.9 V to 12 V Supply Range
- Thermal Shutdown Protection
- Current Limitation
- Requires Only 1.0 μF Output Capacitance for Stability

For more features, see the data sheet

Applications

- PCMCIA Card
- Cellular Phones
- Camcorders and Cameras
- Networking Systems, DSL/Cable Modems
- Cable SetTop Box

End Products

- PCMCIA Card
- Cellular Phones
- Camcoders and Cameras
- Networking Systems, DSL/Cable Modems
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Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Min (V)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSR R (dB)	Noise (μV _r ms)	Enable	PowerGood	Application	Package Type
NCP3337MN33OR2G	0.544		Active	Single	Positive	3.3	0.5	2.9	12	0.23	0.22	40	46	Yes	Yes		DFN-10
NCP3337MNADJR2G	0.544		Active	Single	Positive	Adj	0.5	2.9	12	0.23	0.22	40	46	Yes	Yes		DFN-10