

Product Overview

NCV8716: 80 mA Ultra-Low Iq, Wide Input Voltage Low Dropout

For complete documentation, see the [data sheet](#).

The NCV8716 is 80 mA LDO Linear Voltage Regulator. It is a very stable and accurate device with ultra-low ground current consumption (4.7 μ A over the full output load range) and a wide input voltage range (up to 24 V). The regulator incorporates several protection features such as Thermal Shutdown and Current Limiting.

Features

- Wide Input Voltage Range from 2.5 V up to 24 V
- Ultra-Low Quiescent Current: 3.2 μ A Typical
- Fixed Output Voltage Options: from 1.2 V to 5.0 V
- PSRR 60 dB at 100 kHz
- Available in WDFN8 2 x 2 mm package

Benefits

- Compatible with most battery sources and DC output voltage adapters
- Helps to reduce the current consumption
- Very-well suited to power low supply voltage microcontrollers and sensors
- Provides very good input to output isolation
- Offers very small overall solution size

Applications

- Safety Systems
- Communication Systems
- Infotainment, Audio

Part Electrical Specifications

Product	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)	PSRR (dB)	Noise (μV _{rms})	Enable	Power Good	Package Type
NCV8716MT15TBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	0.08	2.5	24	-	0.0034	56	120	No	No	WDFN -6
NCV8716MT18TBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.8	0.08	2.5	24	-	0.0034	60	140	No	No	WDFN -6
NCV8716MT25TBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.5	0.08	2.5	24	0.4	0.0034	60	160	No	No	WDFN -6
NCV8716MT28TBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	2.8	0.08	2.5	24	0.38	0.0034	58	180	No	No	WDFN -6
NCV8716MT30TBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3	0.08	2.5	24	0.37	0.0034	58	190	No	No	WDFN -6
NCV8716MT33TBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.08	2.5	24	0.35	0.0034	60	200	No	No	WDFN -6
NCV8716MT50TBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.08	2.5	24	0.31	0.0034	54	220	No	No	WDFN -6

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

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