

Product Overview

NCV317: Linear Voltage Regulator, Positive, Adjustable Output, 1.5 A

For complete documentation, see the data sheet

Product Description

The LM317 Low Dropout (LDO) Linear Voltage Regulator is an adjustable 3-terminal positive LDO voltage regulator capable of supplying in excess of 1.5 A over an output voltage range of 1.2 V to 37 V. This voltage regulator is exceptionally easy to use and requires only two external resistors to set the output voltage. Further, it employs internal current limiting, thermal shutdown and safe area compensation, making it essentially blow-out proof.

The LM317 serves a wide variety of applications including local, on card regulation. This device can also be used to make a programmable output regulator, or by connecting a fixed resistor between the adjustment and output, the LM317 can be used as a precision current regulator.

Features

- Output Current in Excess of 1.5 A
- Output Adjustable between 1.2 V and 37 V
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting Constant with Temperature
- Output Transistor Safe-Area Compensation
- Floating Operation for High Voltage Applications
- Eliminates Stocking many Fixed Voltages Standard Application
- Automotive Device for Wide Temperature Range - NCV317
- Pb-Free Packages are Available

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
NCV317BD2TG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	1.5	40	2.25				D ² PAK-3
NCV317BD2TR4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	1.5	40	2.25				D ² PAK-3
NCV317BTG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	1.5	40	2.25				TO-220-3

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