

Product Overview

LM317: Linear Voltage Regulator, 1.5 A, High PSRR, Adjustable, Positive

For complete documentation, see the data sheet.

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	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)	PSRR (dB)	Noise (μV _{rms})	Enable	Power Good	Package Type
LM317BD2TG	0.3433	Pb-free Halide free	Active	Single	Positive	Adj	1.5	2.8	40	2.25		80		No	No	D ² PAK-3
LM317BD2TR4G	0.2992	Pb-free Halide free	Active	Single	Positive	Adj	1.5	2.8	40	2.25		80		No	No	D ² PAK-3
LM317BTG	0.2236	Pb-free Halide free	Active	Single	Positive	Adj	1.5	2.8	40	2.25		80		No	No	TO-220-3
LM317D2TG	0.2692	Pb-free Halide free	Active	Single	Positive	Adj	1.5	2.8	40	2.25		80		No	No	D ² PAK-3
LM317D2TR4G	0.324	Pb-free Halide free	Active	Single	Positive	Adj	1.5	2.8	40	2.25		80		No	No	D ² PAK-3
LM317TG	0.2299	Pb-free Halide free	Active	Single	Positive	Adj	1.5	2.9	40	2.25		80		No	No	TO-220-3

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

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