

Product Overview

LM317L: Linear Voltage Regulator, 100 mA, High PSRR, Adjustable, Positive

For complete documentation, see the data sheet.

The LM317L is an adjustable 3-terminal positive linear voltage regulator capable of supplying in excess of 100 mA over an output voltage range of 1.2 V to 37 V. This linear 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 them essentially blow-out proof. The LM317L serves a wide variety of applications including local, on card regulation. This linear voltage regulator can also be used to make a programmable output regulator, or by connecting a fixed resistor between the adjustment and output, the LM317L can be used as a precision current regulator.

Features

- Output Current in Excess of 100 mA
- Output Adjustable Between 1.2 V and 37 V
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- Output Transistor Safe-Area Compensation
- Floating Operation for High Voltage Applications
- Standard 3-Lead Transistor Package
- Eliminates Stocking Many Fixed Voltages
- Pb-Free Packages are Available
- NCV Prefix for Automotive and Other Applications Requiring Site and Control Changes

For more features, see the data sheet

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
LM317LBDR2G	0.1003	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	SOIC-8
		Halide free														
LM317LBZG	0.1533	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
LM317LBZRAG	0.1356	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
LM317LBZRPG	0.1267	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
LM317LDR2G	0.1053	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	SOIC-8
		Halide free														
LM317LZG	0.1343	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
LM317LZRAG	0.142	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
LM317LZREG	0.2261	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
LM317LZRMG	0.234	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
LM317LZRPG	0.1229	Pb-free	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		Halide free														
NCV317LBDR2G	0.174	AEC Qualified	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	SOIC-8
		PPAP Capable														
		Pb-free														
		Halide free														
NCV317LBZG	0.1364	AEC Qualified	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		PPAP Capable														
		Pb-free														
		Halide free														
NCV317LBZRAG	0.1461	AEC Qualified	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	TO-92
		PPAP Capable														
		Pb-free														
		Halide free														
SC901013DR2G	0.2133	AEC Qualified	Active	Single	Positive	Adj	0.1	2.8	40	1.9		80		No	No	SOIC-8
		PPAP Capable														
		Pb-free														
		Halide free														

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

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