

LM117/LM317A/LM317 3-Terminal Adjustable Regulator

General Description

The LM117 series of adjustable 3-terminal, positive voltage regulators is capable of supplying in excess of 1.5A over a 1.2V to 37V output range. They are exceptionally easy to adjust, require only two external resistors, to set the output voltage. Further, both line and load regulation are better than standard fixed regulators. Also, the LM117 is packaged in standard transistor packages which are easily mounted and handled.

In addition to higher performance than fixed regulators, the LM117 series offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection, and safe area protection. All overload protection circuitry remains fully functional even if the adjustable terminal is disconnected.

For 100% line regulation, no capacitors are needed unless the device is adjusted to 1.2V. If an output filter capacitor is desired, a 10µF capacitor is recommended. An optional output capacitor can be used to improve transient response. The LM117 is capable of adjusting to 1.2V to achieve very high line regulation. The LM117 is available with standard 5-pin and 8-pin packages.

Resistor tolerances and capacitor tolerances are critical for accurate output voltage. For best results, use 1% resistors and 5% capacitors. Suppliers of standard and custom IC's can be regulated as long as the maximum input to output differential is not exceeded, i.e., avoid short-circuiting the output.

Adjustment is as easy as simply adjusting the output resistor, a programmable output regulator, or by connecting a load resistor between the adjustment pin and output. The LM117 can be used as a precision current regulator. Regulated with electronic shutdown can be achieved by connecting the adjustment terminal to ground while programming the output to 1.2V where short leads dollar bill current.

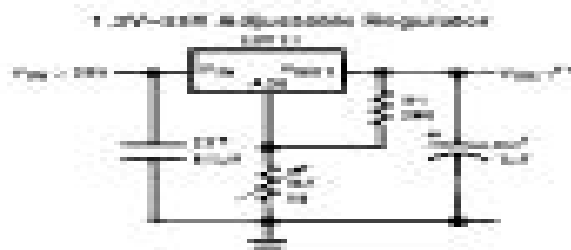
For applications requiring greater output current, see Limited Power Output and Limited Power Output data sheets. For the negative complement, see LM107 series data sheet.

Features

- Guaranteed 75V input voltage tolerance (LM117A)
- Guaranteed max. 1.0V to 1.5V line regulation (LM117A)
- Guaranteed max. 0.0% load regulation (LM117)
- Guaranteed 1.5A output current
- Adjustable output down to 1.2V
- Current limit constant with temperature
- IC Product Enhancement tested

- 100% DC voltage regulation
- 100% DC voltage regulation

Typical Applications



Full output current not available at high input/output voltages.
*Bypass all electronic lines from IC pins to ground.
*Output voltage is not available at high input/output voltages.
*Output voltage is not available at high input/output voltages.
*Output voltage is not available at high input/output voltages.

$$I_{max} = 1.0A \left(1 + \frac{R_1}{R_2} \right) + 100mA$$

Part Number	Package	TO-18	TO-220
LM117, LM317	TO-18	TO-18	TO-18
LM117A, LM317A	TO-18	TO-18	TO-18
LM117	TO-220	TO-220	TO-220
LM117A, LM317A	TO-220	TO-220	TO-220
LM117, LM317A, LM317	TO-220	TO-220	TO-220
LM117	TO-220	TO-220	TO-220
LM117A, LM317A	TO-220	TO-220	TO-220

SOT-223 vs. TO-252 (D-Pak) Packages



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Aubrey Kagan



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Handbook of Linear Integrated Electronics for Research Thomas Daniel Scott Hamilton, 1977 **Electronics and Microprocessing for Research, 2nd Edition** David Dubins, 2019-11-15 This is an introductory course textbook in electronics programming and microprocessing It explains how to connect and control various electronic components how to wire and read common types of sensors and how to amplify filter and smooth sensor readings This will allow the learner to start designing and building their own equipment for research projects The course starts at a beginner level assuming no prior knowledge in these areas Programming and microprocessing are taught using the Arduino IDE This book can serve as a stand alone crash course for a self motivated learner It can also be directly adopted as a course textbook for an elective in a college university or high school context Sections include various fun lab activities that increase in difficulty and enough theory and practical advice to help complement the activities with understanding Resources are provided to the instructor to organize the lectures activities and individual student design projects These tools will help any reader turn their electronic project ideas into functional prototypes

Inductive Sensors for Industrial Applications Sorin Fericean, 2018-12-31 This practical guide provides a comprehensive survey of all relevant

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Computers in Railways

XIV C. A. Brebbia, N. Tomii, P. Tzieropoulos, J. M. Mera, 2014-06-24 This book contains the 14th proceedings of the very successful International conference on Railway Engineering Design and Optimization COMPRAIL 2014 which began in 1987 Encouraging the update and use of advanced systems the book promotes their general awareness throughout the business management design manufacture and operation of railways and other emerging passenger freight and transit systems It particularly emphasises the use of computer systems in advanced railway engineering Topics covered include Timetable planning Computer techniques and simulations Actual train control Operations quality Risk management Planning Monitoring and maintenance Energy supply and consumption Communications and signalling Rescheduling Safety and security Railway vehicle dynamics Driverless and automatic train operation

Linear Databook

National Semiconductor Corporation, 1978 Troubleshooting Analog Circuits Robert A. Pease, 2013-10-22 Troubleshooting Analog Circuits is a guidebook for solving product or process related problems in analog circuits The book also provides advice in selecting equipment preventing problems and general tips The coverage of the book includes the philosophy of troubleshooting the modes of failure of various components and preventive measures The text also deals with the active components of analog circuits including diodes and rectifiers optically coupled devices solar cells and batteries The book will be of great use to both students and practitioners of electronics engineering Other professionals dealing with electronics will also benefit from the text such as electric technicians Electronics World, 2006 *Power IC's Databook* National Semiconductor Corporation, 1995 *Active EMI Filtering for DC-DC Converters* Nicolai Bech Mortensen, 2005

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