

# 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 requiring 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 IC's, no capacitors are needed unless the device is subject to high frequency noise from the input filter capacitor in which case a 0.1µF capacitor is needed. An optional output capacitor can be used to improve transient response. The LM117 is capable of operating at 100°C to achieve very high power densities. The LM117 is available with standard 5-pin and 8-pin packages.

Readers regarding use of the LM117 in applications requiring a current limit or thermal shutdown should refer to the LM117 data sheet only. The input-output differential is 1.2V. Suppliers of semiconductor devices can be regulated as long as the maximum input-output differential is not exceeded, i.e., input must exceed output.

Approx 11 makes an externally simple adjustable set point regulator, a programmable output regulator, or by connecting a load resistor between the adjustment pin and output, the LM117 can function as a precision current regulator. Regulated with electronic shutdown can be achieved by connecting the adjustment terminal to ground which programs the output to 1.2V where a load loads dollar bill outward.

For applications requiring greater output current, see Limited Power Output and Limited Power Output data sheets. For the negative complement, see LM117 series data sheet.

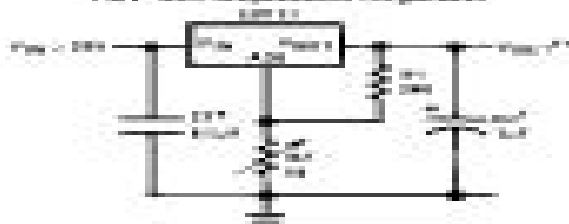
### Features

- Guaranteed 75V input voltage tolerance (LM117A)
- Guaranteed max. 1.0V to 37V 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°C max. operating temperature
- 100°C max. storage temperature

### Typical Applications

#### 1.2V-37V Adjustable Regulator



Full output current not available at high input-output voltages.  
 \* Needed if electronic noise from 4 inches from 50V capacitors.  
 \* Output-regulated transient response. Output regulated within range of 1.2V to 37V. A maximum of 1.5A output current is available. A maximum of 1.5A output current is available. A maximum of 1.5A output current is available.

$$V_{out} = 1.2V \left( 1 + \frac{R_2}{R_1} \right) + I_{adj} R_2$$

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



# Lm317 Datasheet National Semiconductor

**Thomas Daniel Scott Hamilton**



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*Excel by Example* Aubrey Kagan, 2004-05-19 The spreadsheet has become a ubiquitous engineering tool and Microsoft Excel is the standard spreadsheet software package Over the years Excel has become such a complex program that most engineers understand and use only a tiny part of its power and features This book is aimed at electronics engineers and technicians in particular showing them how to best use Excel s features for computations circuit modeling graphing and data analysis as applied to electronics design Separate chapters cover lookup tables and file I O using macros graphing controls using Analysis Toolpak for statistical analysis databases and linking into Excel from other sources such as data from a serial port The book is basically an engineering cookbook with each chapter providing tutorial information along with several Excel recipes of interest to electronics engineers The accompanying CD ROM features ready to run customizable Excel worksheets derived from the book examples which will be useful tools to add to any electronics engineer s spreadsheet toolbox Engineers are looking for any and all means to increase their efficiency and add to their bag of design tricks Just about every electronics engineer uses Excel but most feel that the program has many more features to offer if they only knew what they were The Excel documentation is voluminous and electronics engineers don t have the time to read it all and sift through looking for those features that are directly applicable to their jobs and figure out how to use them This book does that task for them pulls out those features that they need to know about and shows them how to make use of them in specific design examples that they can then tailor to their own design needs This is the ONLY book to deal with Excel specifically in the electronics field Distills voluminous and time consuming Excel documentation down to nitty gritty explanations of those features that are directly applicable to the electronics engineer s daily job duties The accompanying CD ROM provides ready to use fully customizable worksheets from the book s examples     [Handbook of Linear Integrated Electronics for Research](#) Thomas Daniel Scott Hamilton, 1977     [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 COMRAIL 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     **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 inductive sensor classes for industrial applications in a single volume from automotive use to white goods covering design fabrication implementation principles and functionality as well as standards and EMC requirements The book addresses professional engineers and technicians but is also accessible to students who require a solid basic knowledge of inductive sensors Each chapter begins with classic traditional explanations and gradually moves on to state of the art analog and digital solutions including large scale integrated systems on chip software defined sensors SDS digital signal synthesis coils on silicon and active inductors The book employs three modern analysis methods analytic computation popular graphical methods phasor diagrams phase plans Smith charts etc and computer assisted tools like the electromagnetic field simulator Maxwell and the popular Spice simulator for electronic circuits For traditional solutions the chapters give overviews in tables with computation formulae including empirical expressions Numerical examples help the reader consolidate the theoretical knowledge gained Concrete examples for currently available commercial parts are provided

**Linear Databook** National Semiconductor Corporation, 1978    Electronics World , 2006    **Power IC's Databook** National Semiconductor Corporation, 1995

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

**Electronic Design** , 2000    *Active EMI Filtering for DC-DC Converters* Nicolai Bech Mortensen, 2005    *Operational Amplifiers with Linear Integrated Circuits* William D. Stanley, 1994 Through detailed explanations and mathematics accessible to technology level readers this book establishes methods for analyzing modeling and predicting performance of op amps and linear integrated circuits

**KEY TOPICS** It includes the common circuit configurations and devices to be used with these circuits Also includes Oscillators and waveform generators analog to digital

and digital to analog conversion computer software analysis operational amplifier DC effects and limitations and more

**Electronic Devices and Circuit Fundamentals, Solution Manual** Dale R Patrick, Stephen W. Fardo, Ray E. Richardson, Vigyan (Vigs) Chandra, 2023-05-26 Devices and Circuit Fundamentals is Chapter Outline Learning Objectives Key Terms Figure List Chapter Summary Formulas Answers to Examples Self Exams Glossary of Terms defined [Audio](#) [Electronics](#), 2000 *Proceedings of POWERCON.*, 1976 [Op Amps and Linear Integrated Circuits](#) Richard A. Honeycutt, 1988 **Electronic Devices** Thomas L. Floyd, 2002 This textbook for a one or two semester course covers electronic devices and circuits including troubleshooting and practical applications The first section is devoted to discrete devices and circuits while the second covers linear integrated circuits A sampling of topics includes special purpose diodes power amplifiers field effect transistors oscillators and voltage regulators The fourth edition features a new chapter on communications circuits The CD ROM contains exercises and problems using Electronics Workbench 5 and Electronics Workbench Multisim 6 circuit files Annotation copyrighted by Book News Inc Portland OR *Electronics and Microprocessing for Research* David Dubins, 2019-01-31 This book is an accompanying textbook for an introductory course in microprocessing Using the Arduino IDE platform it explains introductory electronics programming microprocessing and data collection techniques to allow students to start designing and building their own instruments for research projects The course starts from a beginner level assuming no prior knowledge in these areas The format of the book is that of a laboratory manual which can be used as a stand alone crash course for a self motivated student or be directly adopted as a course textbook for an elective in a college or university context This text was originally developed for PHC435 Pharmaceutical Data Acquisition and Analysis and PHM1138 Electronics for Pharmaceutical Applications at the Leslie Dan Faculty of Pharmacy of the University of Toronto The book includes various fun lab activities that increase in difficulty and enough theory and practical advice to help complement the activities with understanding [EDN](#), 2006 **Linear Integrated Circuits** J. Michael McMenamin, 1985

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forgiveness. It is a genuine renewal of man. And this ... Saint Gregory Palamas Nov 3, 2022 — Saint Gregory Palamas. “The mind which applies itself to apophatic theology thinks of what is different from God. Thus it proceeds by means of ... angular speed control Sep 1, 2022 — Universiti Teknologi Malaysia. 81310 Johor Bahru, Johor. Date. : 1 September ... Figure C.1: Open loop DC motor Speed control with square wave ... SENSORLESS POSITION CONTROL OF DC MOTOR ... Nov 17, 2015 — ... Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor Malaysia ... Speed Control of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia ... ... UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee. Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...