

Lab 7: Bipolar Junction Transistors

Object: To explore the operation of the bipolar junction transistor and measure its current gain parameter, β .

Apparatus: TDS2004B Digital Oscilloscope, 10X Attenuating Probes, Simpson 260 VOM Meter, Fluke 73 DMM, Circuit Chassis, 2N2218 Transistor, Various Resistors, and Cables.

Introduction: Today we take up the most important electronic invention of the 20th century – the transistor – an *active* device which might be viewed as two silicon diodes arranged back-to-back.

Exercises:

1. Prepare for this experiment by obtaining a 2N2218 transistor, a medium-power device intended for general purpose switching and amplifier applications. By referring to the *bottom-view pinout* of the 2N2218 shown in Fig. 1, identify the emitter (E), the base (B) and collector (C) leads, and infer the directions of the BC and BE pn-junctions using the Fluke multimeter set in diode mode. From your results, draw into your notebook the correct “two-diode” schematic for the 2N2218. Is it an NPN or PNP type? Which pin is in electrical contact with the transistor case?

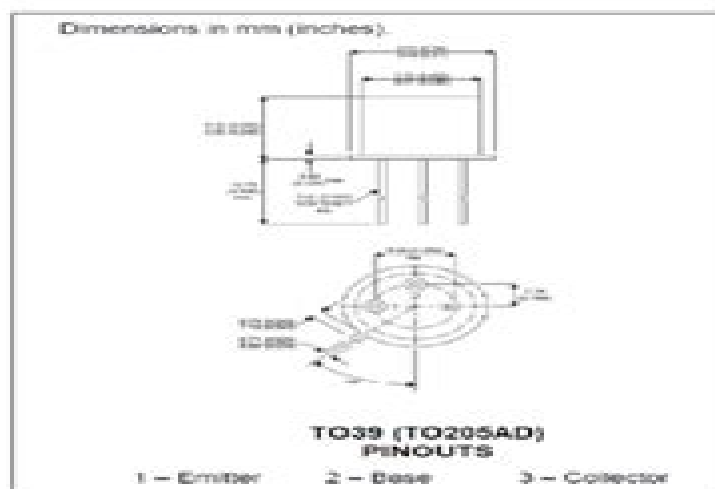


Fig. 1: Pin-out diagram for the 2N2218 bipolar junction transistor.

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J Spring



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Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 **Laboratory Manual for Transistor and Semiconductor Devices** Robert F. Coughlin, 1968 **Manufacturing Practices Laboratory Manual For Engineering Courses** M.S. Matharu, Sukhpal Singh, 2021-05-19 This manual covers in details the theory and practices of Carpentry and Pattern Making Shop Foundry Shop Smithy and Forging Shop Machine Shop Welding Shop Electrical and Electronic Shops Sheet Metal Shops Fitting Shop **Transistor Laboratory Manual** Milton Sol Kiver, Bernard Van Emden, 1962 *Semiconductor Devices* James Fiore, 2016-02-04 With 28 laboratory experiments this manual offers thorough coverage of modern semiconductor devices Topics begin at basic semiconductor devices such as signal diodes LEDs and Zeners and proceeds through NPN and PNP bipolar transistors and field effect devices Applications include rectifiers clippers clampers AC to DC power supplies transistor biasing small and large signal class A amplifiers followers class B amplifiers ohmic region FET applications and more An extensive DC power supply project is included as well Appendices include a symbol glossary an overview of using a spreadsheet to view data graphically and links to manufacturer s data sheets Each experiment includes a parts list and test equipment inventory Most exercises may be completed just using a digital multimeter dual DC power supply a function generator and oscilloscope Laboratory Manual for Electronic Instrumentation Earle B. Brown, 1968 Laboratory Manual for Electric Circuits Alexander W. Avtgis, Robert F. Coughlin, Nicholas C. Loomos, 1968 *Laboratory Manual for Electronic Shop Practices* Alexander W. Avtgis, William F. Megow, 1968 For the electronic technician **Technical Books & Monographs** United States. Energy Research and Development Administration, 1974 **Technical Books & Monographs** United States. Department of Energy, **Industrial Electronics: A Text-lab Manual** Paul B. Zbar, 1972 **Laboratory Manual for Electronic Devices and Circuits** David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e **Vocational-technical Learning Materials** Bruce Reinhart, 1974 **Technical Books and Monographs Sponsored by the U.S. Atomic Energy Commission** U.S. Atomic Energy Commission, 1976 IEEE Circuits & Devices ,2000 **National Union Catalog** ,1978 Includes entries for maps and atlases *Scientific and Technical Books in Print* ,1972 **Introductory Electronic Devices and Circuits** Robert T. Paynter, 2003 For courses in Electronic Devices or Semiconductors This text makes comprehension of material a top priority and encourages students to be active participants in the learning process The electron flow and conventional flow versions of this text provide a readable and thorough approach to electronic devices and circuits and support discussions with an abundance of learning aids to motivate and assist students at every turn The sixth edition of this well established text features significant art improvements throughout added EWB simulation problems and a redesigned lab manual *U.S. Government Research & Development Reports* ,1970 Control of Electric Machines Irving L. Kosow, 1973

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Table of Contents Lab Manual Transistor Devices

1. Understanding the eBook Lab Manual Transistor Devices
 - The Rise of Digital Reading Lab Manual Transistor Devices
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Manual Transistor Devices
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Manual Transistor Devices
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Manual Transistor Devices
 - Personalized Recommendations
 - Lab Manual Transistor Devices User Reviews and Ratings
 - Lab Manual Transistor Devices and Bestseller Lists
5. Accessing Lab Manual Transistor Devices Free and Paid eBooks
 - Lab Manual Transistor Devices Public Domain eBooks
 - Lab Manual Transistor Devices eBook Subscription Services
 - Lab Manual Transistor Devices Budget-Friendly Options

6. Navigating Lab Manual Transistor Devices eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Manual Transistor Devices Compatibility with Devices
 - Lab Manual Transistor Devices Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Manual Transistor Devices
 - Highlighting and Note-Taking Lab Manual Transistor Devices
 - Interactive Elements Lab Manual Transistor Devices
8. Staying Engaged with Lab Manual Transistor Devices
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Manual Transistor Devices
9. Balancing eBooks and Physical Books Lab Manual Transistor Devices
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Manual Transistor Devices
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Manual Transistor Devices
 - Setting Reading Goals Lab Manual Transistor Devices
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Manual Transistor Devices
 - Fact-Checking eBook Content of Lab Manual Transistor Devices
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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