

Smd Diode Color Code

Modern Electronics .1988

How Electronic Things Work... And What to do When They Don't Robert L.

Goodman.2002-11-19 * The Everypersons guide to understanding and repairing common electronic devices--written for people who would ordinarily call the shop * Covers TVs, DVDs, CD-players, Audio tuners and receivers, speaker systems, radios, telephones, and FAXs, and more * Includes Electronics 101 for true beginners * No technical background necessary--features easy-to-understand language and clear instructions * New chapters on wireless cellular phones and DVD systems

Thomas Register .2004

The Complete Guide to Electronics Troubleshooting James Perozzo.1994 Learn Essential Troubleshooting Skills With These Excellent Features: easy-to-follow troubleshooting methods for all types of circuitry, including; DC, AC, audio, pulse, digital, microprocessors, and radio frequency equipmentUp-to-date, in-depth coverage of measuring instruments explains exactly how to use them and how to interpret your test resultssafety and cautionary information is emphasized to prevent danger to the technician and damage to equipment

Current Sources and Voltage References Linden T. Harrison.2005-08-22 Current Sources and Voltage References provides fixed, well-regulated levels of current or voltage within a circuit. These are two of the most important "building blocks " of analog circuits, and are typically used in creating most analog IC designs. Part 1 shows the reader how current sources are created, how they can be optimized, and how they can be utilized by the OEM circuit designer. The book serves as a "must-have reference for the successful development of precision circuit applications. It shows practical examples using either BJTs, FETs, precision op amps, or even matched CMOS arrays being used to create highly accurate current source designs, ranging from nanoAmps to Amps. In each chapter the most important characteristics of the particular semiconductor type being studied are carefully reviewed. This not only serves as a helpful refresher for experienced engineers, but also as a good foundation for all EE student coursework, and includes device models and relevant equations. Part 2 focuses on semiconductor voltage references, from their design to their various practical enhancements. It ranges from the simple Zener diode to today's most advanced topologies, including Analog Devices' XFET® and Intersil's FGATM (invented while this book was being written). Over 300 applications and circuit diagrams are shown throughout this easy-to-read, practical reference book. * Discusses how to design low-noise, precision current sources using matched transistor pairs. * Explains the design of high power current sources with power MOSFETs * Gives proven techniques to reduce drift and improve accuracy in voltage references.

Thomas Register of American Manufacturers .2002 This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

Electrostatic Discharge Protection Juin J. Liou.2017-12-19 Electrostatic discharge (ESD) is one of the most prevalent threats to electronic components. In an ESD event, a finite amount of charge is transferred from one object (i.e., human body) to another (i.e., microchip). This process can result in a very high current passing through the microchip within a very short period of time. Thus, more than 35 percent of single-event chip damages can be attributed to ESD events, and designing ESD structures to protect integrated circuits against the ESD stresses is a high priority in the semiconductor industry. *Electrostatic Discharge Protection: Advances and Applications* delivers timely coverage of component- and system-level ESD protection for semiconductor devices and integrated circuits. Bringing together contributions from internationally respected researchers and engineers with expertise in ESD design, optimization, modeling, simulation, and characterization, this book bridges the gap between theory and practice to offer valuable insight into the state of the

art of ESD protection. Amply illustrated with tables, figures, and case studies, the text: Instills a deeper understanding of ESD events and ESD protection design principles Examines vital processes including Si CMOS, Si BCD, Si SOI, and GaN technologies Addresses important aspects pertinent to the modeling and simulation of ESD protection solutions Electrostatic Discharge Protection: Advances and Applications provides a single source for cutting-edge information vital to the research and development of effective, robust ESD protection solutions for semiconductor devices and integrated circuits.

Semiconductor Packaging Andrea Chen,Randy Hsiao-Yu Lo.2016-04-19 In semiconductor manufacturing, understanding how various materials behave and interact is critical to making a reliable and robust semiconductor package. *Semiconductor Packaging: Materials Interaction and Reliability* provides a fundamental understanding of the underlying physical properties of the materials used in a semiconductor package. By tying together the disparate elements essential to a semiconductor package, the authors show how all the parts fit and work together to provide durable protection for the integrated circuit chip within as well as a means for the chip to communicate with the outside world. The text also covers packaging materials for MEMS, solar technology, and LEDs and explores future trends in semiconductor packages.

Electrical Engineering Science Preston R Clement,Walter Curtis Johnson.2012-03-01

Getting Started with Arduino Massimo Banzi.2011-09-13 Presents an introduction to the open-source electronics prototyping platform.

Arduino Robotics John-David Warren,Josh Adams,Harald Molle.2011-10-08 This book will show you how to use your Arduino to control a variety of different robots, while providing step-by-step instructions on the entire robot building process. You'll learn Arduino basics as well as the characteristics of different types of motors used in robotics. You also discover controller methods and failsafe methods, and learn how to apply them to your project. The book starts with basic robots and moves into more complex projects, including a GPS-enabled robot, a robotic lawn mower, a fighting bot, and even a DIY Segway-clone. Introduction to the Arduino and other components needed for robotics Learn how to build motor controllers Build bots from simple line-following and bump-sensor bots to more complex robots that can mow your lawn, do battle, or even take you for a ride Please note: the print version of this title is black & white; the eBook is full color.

Electrical & Electronics Abstracts .1997

Solid-state Relay Handbook with Applications Anthony Bishop.1986

Programming PIC Microcontrollers with XC8 Armstrong Subero.2017-12-06 Learn how to use microcontrollers without all the frills and math. This book uses a practical approach to show you how to develop embedded systems with 8 bit PIC microcontrollers using the XC8 compiler. It's your complete guide to understanding modern PIC microcontrollers. Are you tired of copying and pasting code into your embedded projects? Do you want to write your own code from scratch for microcontrollers and understand what your code is doing? Do you want to move beyond the Arduino? Then *Programming PIC Microcontrollers with XC8* is for you! Written for those who want more than an Arduino, but less than the more complex microcontrollers on the market, PIC microcontrollers are the next logical step in your journey. You'll also see the advantage that MPLAB X offers by running on Windows, MAC and Linux environments. You don't need to be a command line expert to work with PIC microcontrollers, so you can focus less on setting up your environment and more on your application. What You'll Learn Set up the MPLAB X and XC8 compilers for microcontroller development Use GPIO and PPS Review EUSART and Software UART communications Use the eXtreme Low Power (XLP) options of PIC microcontrollers Explore wireless communications with WiFi and Bluetooth Who This Book Is For Those with some basic electronic device and some electronic equipment and knowledge. This book assumes knowledge of the C programming language and basic knowledge of digital electronics though a basic overview is given for both. A complete newcomer can follow along, but this book is heavy on code, schematics and images and focuses less on the theoretical aspects of using microcontrollers. This book is also targeted to students wanting a practical overview of microcontrollers outside of the classroom.

Sensors and Transducers Keith Brindley.1988

The Potentiometer Handbook Carl David Todd.1975

High Temperature Electronics F. Patrick McCluskey,Thomas Podlesak,Richard

Grzybowski.2018-05-04 The development of electronics that can operate at high temperatures has been identified as a critical technology for the next century. Increasingly, engineers will be called upon to design avionics, automotive, and geophysical electronic systems requiring components and packaging reliable to 200 °C and beyond. Until now, however, they have had no single resource on high temperature electronics to assist them. Such a resource is critically needed, since the design and manufacture of electronic components have now made it possible to design electronic systems that will operate reliably above the traditional temperature limit of 125 °C. However, successful system development efforts hinge on a firm understanding of the fundamentals of semiconductor physics and device processing, materials selection, package design, and thermal management, together with a knowledge of the intended application environments. High Temperature Electronics brings together this essential information and presents it for the first time in a unified way.

Packaging and device engineers and technologists will find this book required reading for its coverage of the techniques and tradeoffs involved in materials selection, design, and thermal management and for its presentation of best design practices using actual fielded systems as examples. In addition, professors and students will find this book suitable for graduate-level courses because of its detailed level of explanation and its coverage of fundamental scientific concepts.

Experts from the field of high temperature electronics have contributed to nine chapters covering topics ranging from semiconductor device selection to testing and final assembly.

Learn Electronics with Raspberry Pi Stewart Watkiss.2016-06-15 Make a variety of cool projects using the Pi with programming languages like Scratch and Python, with no experience necessary. You'll learn how the Pi works, how to work with Raspbian Linux on the Pi, and how to design and create electronic circuits. Raspberry Pi is everywhere, it's inexpensive, and it's a wonderful tool for teaching about electronics and programming. This book shows you how to create projects like an arcade game, disco lights, and infrared transmitter, and an LCD display. You'll also learn how to control Minecraft's Steve with a joystick and how to build a Minecraft house with a Pi, and even how to control a LEGO train with a Pi. You'll even learn how to create your own robot, including how to solder and even design a printed circuit board! Learning electronics can be tremendous fun — your first flashing LED circuit is a reason to celebrate! But where do you go from there, and how can you move into more challenging projects without spending a lot of money on proprietary kits? Learn Electronics with Raspberry Pi shows you how to and a lot more. What You'll Learn Design and build electronic circuits Make fun projects like an arcade game, a robot, and a Minecraft controller Program the Pi with Scratch and Python Who This Book Is For Makers, students, and teachers who want to learn about electronics and programming with the fun and low-cost Raspberry Pi.

International Diode Equivalents Guide Adrian Michaels.1982

High-Frequency Integrated Circuits Sorin Voinigescu.2013-02-28 A transistor-level, design-intensive overview of high speed and high frequency monolithic integrated circuits for wireless and broadband systems from 2 GHz to 200 GHz, this comprehensive text covers high-speed, RF, mm-wave, and optical fibre circuits using nanoscale CMOS, SiGe BiCMOS, and III-V technologies. Step-by-step design methodologies, end-of chapter problems, and practical simulation and design projects are provided, making this an ideal resource for senior undergraduate and graduate courses in circuit design. With an emphasis on device-circuit topology interaction and optimization, it gives circuit designers and students alike an in-depth understanding of device structures and process limitations affecting circuit performance.

JEE, Journal of Electronic Engineering .1993

Semiconductor Devices James Fiore.2017-05-11 Across 15 chapters, Semiconductor Devices covers the theory and application of discrete semiconductor devices including various types of diodes, bipolar junction transistors, JFETs, MOSFETs and IGBTs. Applications include rectifying, clipping, clamping, switching, small signal amplifiers and followers, and class A, B and D power amplifiers.

Focusing on practical aspects of analysis and design, interpretations of device data sheets are integrated throughout the chapters. Computer simulations of circuit responses are included as well. Each chapter features a set of learning objectives, numerous sample problems, and a variety of exercises designed to hone and test circuit design and analysis skills. A companion laboratory manual is available. This is the print version of the on-line OER.

Thomas Register of American Manufacturers and Thomas Register Catalog File .2002 Vols. for 1970-71 includes manufacturers' catalogs.

MOST Prof. Dr.-Ing. Andreas Grzempa.2012-01-01 MOST (Media Oriented Systems Transport) is a multimedia network technology developed to enable an efficient transport of streaming, packet and control data in an automobile. It is the communication backbone of an infotainment system in a car. MOST can also be used in other product areas such as driver assistance systems and home applications.

Gallium Nitride Power Devices Hongyu Yu,Tianli Duan.2017-07-06 GaN is considered the most promising material candidate in next-generation power device applications, owing to its unique material properties, for example, bandgap, high breakdown field, and high electron mobility. Therefore, GaN power device technologies are listed as the top priority to be developed in many countries, including the United States, the European Union, Japan, and China. This book presents a comprehensive overview of GaN power device technologies, for example, material growth, property analysis, device structure design, fabrication process, reliability, failure analysis, and packaging. It provides useful information to both students and researchers in academic and related industries working on GaN power devices. GaN wafer growth technology is from Enkris Semiconductor, currently one of the leading players in commercial GaN wafers. Chapters 3 and 7, on the GaN transistor fabrication process and GaN vertical power devices, are edited by Dr. Zhihong Liu, who has been working on GaN devices for more than ten years. Chapters 2 and 5, on the characteristics of polarization effects and the original demonstration of AlGaIn/GaN heterojunction field-effect transistors, are written by researchers from Southwest Jiaotong University. Chapters 6, 8, and 9, on surface passivation, reliability, and package technologies, are edited by a group of researchers from the Southern University of Science and Technology of China.

ISO 14000 Environmental Management Standards Alan S. Morris.2004-11-19 This book covers the cross-disciplinary areas between management issues and engineering issues relevant to implementation of Environmental Management Systems (EMS) to the ISO 14000 series standards. It summarises the requirements set by ISO14001 and considers the management and engineering policies needed to satisfy these requirements and achieve ISO 14001 certification. Unique approach by integrating environmental management and engineering considerations Avoids overuse of complicated technical jargon Detailed coverage of measurement and calibration standards to meet ISO14001 Provides example of EMS documentation and records manual Detailed coverage and control of air, water, noise, vibration pollution and waste management

Piecewise Linear Modeling and Analysis Domine Leenaerts,Wim M.G. van Bokhoven.2013-03-09 Piecewise Linear (PL) approximation of non-linear behaviour is a well-known technique in synthesis and analysis of electrical networks. However, the PL description should be efficient in data storage and the description should allow simple retrieval of the stored information. Furthermore, it would be useful if the model description could handle a large class of piecewise linear mappings. Piecewise Linear Modeling and Analysis explains in detail all possible model descriptions for efficiently storing piecewise linear functions, starting with the Chua descriptions. Detailed explanation on how the model parameter can be obtained for a given mapping is provided and demonstrated by examples. The models are ranked to compare them and to show which model can handle the largest class of PL mappings. All model descriptions are implicitly related to the Linear Complementarity Problem and most solution techniques for this problem, like Katzenelson and Lemke, are discussed according to examples that are explained in detail. To analyse PL electrical networks a simulator is mandatory. Piecewise Linear Modeling and Analysis provides a detailed outline of a possible PL simulator, including pseudo-programming code. Several simulation domains like transient, AC and distortion

are discussed. The book explains the attractive features of PL simulators with respect to mixed-level and mixed-signal simulation while paying due regard also to hierarchical simulation. Piecewise Linear Modeling and Analysis shows in detail how many existing components in electrical networks can be modeled. These range from digital logic and analog basic elements such as transistors to complex systems like Phase-Locked Loops and detection systems. Simulation results are also provided. The book concludes with a discussion on how to find multiple solutions for PL functions or networks. Again, the most common techniques are outlined using clear examples. Piecewise Linear Modeling and Analysis is an indispensable guide for researchers and designers interested in network theory, network synthesis and network analysis.

Semiconductor Device Reliability A. Christou, B.A. Unger. 2012-12-06 This publication is a compilation of papers presented at the Semiconductor Device Reliability Workshop sponsored by the NATO International Scientific Exchange Program. The Workshop was held in Crete, Greece from June 4 to June 9, 1989. The objective of the Workshop was to review and to further explore advances in the field of semiconductor reliability through invited paper presentations and discussions. The technical emphasis was on quality assurance and reliability of optoelectronic and high speed semiconductor devices. The primary support for the meeting was provided by the Scientific Affairs Division of NATO. We are indebted to NATO for their support and to Dr. Craig Sinclair, who administers this program. The chapters of this book follow the format and order of the sessions of the meeting. Thirty-six papers were presented and discussed during the five-day Workshop. In addition, two panel sessions were held, with audience participation, where the particularly controversial topics of burn-in and reliability modeling and prediction methods were discussed. A brief review of these sessions is presented in this book.

Asian Sources Electronic Components .

Op Amps for Everyone Ron Mancini. 2003 The operational amplifier (op amp) is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

Reflow Soldering Processes Ning-Cheng Lee. 2002-01-11 Focused on technological innovations in the field of electronics packaging and production, this book elucidates the changes in reflow soldering processes, its impact on defect mechanisms, and, accordingly, the troubleshooting techniques during these processes in a variety of board types. Geared toward electronics manufacturing process engineers, design engineers, as well as students in process engineering classes, Reflow Soldering Processes and Troubleshooting will be a strong contender in the continuing skill development market for manufacturing personnel. Written using a very practical, hands-on approach, Reflow Soldering Processes and Troubleshooting provides the means for

engineers to increase their understanding of the principles of soldering, flux, and solder paste technology. The author facilitates learning about other essential topics, such as area array packages--including BGA, CSP, and FC designs, bumping technique, assembly, and rework process,--and provides an increased understanding of the reliability failure modes of soldered SMT components. With cost effectiveness foremost in mind, this book is designed to troubleshoot errors or problems before boards go into the manufacturing process, saving time and money on the front end. The author's vast expertise and knowledge ensure that coverage of topics is expertly researched, written, and organized to best meet the needs of manufacturing process engineers, students, practitioners, and anyone with a desire to learn more about reflow soldering processes. Comprehensive and indispensable, this book will prove a perfect training and reference tool that readers will find invaluable. Provides engineers the cutting-edge technology in a rapidly changing field Offers in-depth coverage of the principles of soldering, flux, solder paste technology, area array packages--including BGA, CSP, and FC designs, bumping technique, assembly, and the rework process

Optics in Our Time Mohammad D. Al-Amri, Mohamed El-Gomati, M. Suhail Zubairy. 2016-12-12 Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years. In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi-popular level. These articles are written by the world authorities in their respective fields. This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner. This volume covers five aspects related to light. The first presents two articles, one on the history of the nature of light, and the other on the scientific achievements of Ibn-Haitham (Alhazen), who is broadly considered the father of modern optics. These are then followed by an article on ultrafast phenomena and the invisible world. The third part includes papers on specific sources of light, the discoveries of which have revolutionized optical technologies in our lifetime. They discuss the nature and the characteristics of lasers, Solid-state lighting based on the Light Emitting Diode (LED) technology, and finally modern electron optics and its relationship to the Muslim golden age in science. The book's fourth part discusses various applications of optics and light in today's world, including biophotonics, art, optical communication, nanotechnology, the eye as an optical instrument, remote sensing, and optics in medicine. In turn, the last part focuses on quantum optics, a modern field that grew out of the interaction of light and matter. Topics addressed include atom optics, slow, stored and stationary light, optical tests of the foundation of physics, quantum mechanical properties of light fields carrying orbital angular momentum, quantum communication, and Wave-Particle dualism in action.

Electronic Devices Thomas L. Floyd. 2003

Python Programming for Arduino Pratik Desai. 2015-02-27 This is the book for you if you are a student, hobbyist, developer, or designer with little or no programming and hardware prototyping experience, and you want to develop IoT applications. If you are a software developer or a hardware designer and want to create connected devices applications, then this book will help you get started.

Gaylor Technical Survey .1968

Rich's High-tech Business Guide to Silicon Valley and Northern California .2003

Scientific and Technical Aerospace Reports .1984

The New Radio Receiver Building Handbook Lyle Russell Williams, Bsee Lyle Russell Williams. 2006-09-01 A shortwave radio, without use of satellites, will receive commercial free foreign government supported English language radio programs from thousands of miles away! Shortwave radios can be built at home in a time period of a few hours to a few weeks. This book contains over one hundred illustrations. Written for both the expert and the novice, it provides information for understanding how the radios work, for obtaining the necessary parts, and for constructing the radios. Shortwave radios were first developed in the 1930s and new designs can be built to resemble radios of that era.

Robot Building for Beginners, Third Edition David Cook. 2015-09-02 I wrote this book because I love

building robots. I want you to love building robots, too. It took me a while to learn about many of the tools and parts in amateur robotics. Perhaps by writing about my experiences, I can give you a head start.--David Cook Robot Building for Beginners, Third Edition provides basic, practical knowledge on getting started in amateur robotics. There is a mix of content: from serious reference tables and descriptions to personal stories and humorous bits. The robot described and built in this book is battery powered and about the size of a lunch box. It is autonomous; that is, it isn't remote controlled. The book is broken up into small chapters, suitable for bedtime (or bathroom) reading. The characteristics and purposes of each major component (resistor, transistor, wire, and motor) are described, followed by a hands-on experiment to demonstrate. Not only does this help the reader to understand a particular piece, but it also prepares them with processes to learn new parts on their own. An appendix offers an introduction to 3D printing and parts of the robot can, as an alternative, be printed using a 3D printer. The master project of the book is a simple, entertaining, line-following robot.

The Radio Amateur's Handbook .1927

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Table of Contents Smd Diode Color Code

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Understanding the eBook Smd Diode Color Code <ul style="list-style-type: none"> ◦ The Rise of Digital Reading Smd Diode Color Code ◦ Advantages of eBooks Over Traditional Books 2. Identifying Smd Diode Color Code <ul style="list-style-type: none"> ◦ Exploring Different Genres ◦ Considering Fiction vs. Non-Fiction ◦ Determining Your Reading Goals 3. Choosing the Right eBook Platform <ul style="list-style-type: none"> ◦ Popular eBook Platforms ◦ Features to Look for in an Smd Diode Color Code ◦ User-Friendly Interface 4. Exploring eBook Recommendations from Smd Diode Color Code <ul style="list-style-type: none"> ◦ Personalized Recommendations | <ul style="list-style-type: none"> ◦ Smd Diode Color Code User Reviews and Ratings ◦ Smd Diode Color Code and Bestseller Lists <ol style="list-style-type: none"> 5. Accessing Smd Diode Color Code Free and Paid eBooks <ul style="list-style-type: none"> ◦ Smd Diode Color Code Public Domain eBooks ◦ Smd Diode Color Code eBook Subscription Services ◦ Smd Diode Color Code Budget-Friendly Options 6. Navigating Smd Diode Color Code eBook Formats <ul style="list-style-type: none"> ◦ ePub, PDF, MOBI, and More ◦ Smd Diode Color Code Compatibility with Devices ◦ Smd Diode Color Code Enhanced eBook Features 7. Enhancing Your Reading Experience <ul style="list-style-type: none"> ◦ Adjustable Fonts and Text Sizes of Smd Diode Color Code |
|---|---|

- Highlighting and Note-Taking Smd Diode Color Code
- Interactive Elements Smd Diode Color Code
- 8. Staying Engaged with Smd Diode Color Code
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smd Diode Color Code
- 9. Balancing eBooks and Physical Books Smd Diode Color Code
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smd Diode Color Code
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Smd Diode Color Code
 - Setting Reading Goals Smd Diode Color Code
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Smd Diode Color Code
 - Fact-Checking eBook Content of Smd Diode Color Code
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
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Smd Diode Color Code Introduction

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