

Silicon Controlled Rectifiers

Reverse Blocking Thyristors

Designed for high volume, low cost, industrial and consumer applications such as motor control; process control; temperature, light and speed control.

- Small Size
- Passivated Die for Reliability and Uniformity
- Low Level Triggering and Holding Characteristics
- Available in Two Package Styles
 - Surface Mount Lead Form — Case 369A
 - Miniature Plastic Package — Straight Leads — Case 369

ORDERING INFORMATION

- To Obtain "DPAK" in Surface Mount Leadform (Case 369A) Shipped in Sleeves — No Suffix, i.e. MCR12DCN
Shipped in 16 mm Tape and Reel — Add "T4" Suffix to Device Number, i.e. MCR12DCNT4
- To Obtain "DPAK" in Straight Lead Version (Case 369) Shipped in Sleeves — Add "-1" Suffix to Device Number, i.e. MCR12DCN-1

MAXIMUM RATINGS ($T_J = 25^\circ\text{C}$ unless otherwise noted)

Rating	Symbol	Value	Unit
Peak Repetitive Off-State Voltage ⁽¹⁾ Peak Repetitive Reverse Voltage ($T_J = -40$ to 125°C)	V_{ORM} V_{RRM}	600 800	Volts
On-State RMS Current (All Conduction Angles; $T_C = 90^\circ\text{C}$)	$I_T(\text{RMS})$	12	Amps
Average On-State Current (All Conduction Angles; $T_C = 90^\circ\text{C}$)	$I_T(\text{AV})$	7.5	
Peak Non-Repetitive Surge Current (One Half Cycle, 60 Hz, $T_J = 125^\circ\text{C}$)	I_{TSM}	100	
Circuit Fusing Consideration ($t = 8.3$ msec)	I^2t	41	A^2sec
Peak Gate Power (Pulse Width ≤ 10 μsec , $T_C = 90^\circ\text{C}$)	P_{GM}	5.0	Watts
Average Gate Power ($t = 8.3$ msec, $T_C = 90^\circ\text{C}$)	$P_{G(\text{AV})}$	0.5	
Peak Gate Current (Pulse Width ≤ 10 μsec , $T_C = 90^\circ\text{C}$)	I_{GM}	2.0	Amps
Operating Junction Temperature Range	T_J	-40 to 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to 150	

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance — Junction to Case — Junction to Ambient — Junction to Ambient ⁽²⁾	$R_{\theta JC}$ $R_{\theta JA}$ $R_{\theta JA}$	2.2 88 80	$^\circ\text{C}/\text{W}$
Maximum Lead Temperature for Soldering Purposes ⁽³⁾	T_L	260	$^\circ\text{C}$

(1) V_{ORM} for all types can be applied on a continuous basis. Ratings apply for zero or negative gate voltage; positive gate voltage shall not be applied concurrent with negative potential on the anode. Blocking voltages shall not be tested with a constant current source such that the voltage ratings of the device are exceeded.

(2) Surface mounted on minimum recommended pad size.

(3) 1/8" from case for 10 seconds.

Preferred devices are Motorola recommended choices for future use and best overall value.

MCR12DCM
MCR12DCN

Motorola Preferred Devices

SCRs
12 AMPERES RMS
600 thru 800 VOLTS



CASE 369A-13
STYLE 4



MOTOROLA

Electronics Data Sheet

**Maksym Spiryagin, Stefano Bruni, Colin
Cole**

Electronics Data Sheet :

Computer Design's Data Sheet Directory of Digital Electronics, 1974 *Coating Materials for Electronic Applications*
James J. Licari, 2003-06-11 This first book in the Materials and Processes for Electronics Applications series answers questions vital to the successful design and manufacturing of electronic components modules and systems such as How can one protect electronic assemblies from prolonged high humidity high temperatures salt spray or other terrestrial and space environments What coating types can be used to protect microelectronics in military space automotive or medical environments How can the chemistry of polymers be correlated to desirable physical and electrical properties How can a design engineer avoid subsequent potential failures due to corrosion metal migration electrical degradation outgassing What are the best processes that manufacturing can use to mask clean prepare the surface dispense the coating and cure the coating What quality assurance and in process tests can be used to assure reliability What government or industry specifications are available How can organic coatings be selected to meet OSHA EPA and other regulations Besides a discussion of the traditional roles of coatings for moisture and environmental protection of printed circuit assemblies this book covers dielectric coatings that provide electrical functions such as the low dielectric constant dielectrics used to fabricate multilayer interconnect substrates and high frequency high speed circuits Materials engineers and chemists will benefit greatly from a chapter on the chemistry and properties of the main types of polymer coatings including Epoxies Polyimides Silicones Polyurethanes Parylene Benzocyclobenzene and many others For manufacturing personnel there is an entire chapter of over a dozen processes for masking cleaning and surface preparation and a comprehensive review of over 20 processes for the application and curing of coatings including recent extrusion meniscus and curtain coating methods used in processing large panels The pros and cons of each method are given to aid the engineer in selecting the optimum method for his her application As a bonus from his own experience the author discusses some caveats that will help reduce costs and avoid failures Finally the author discusses regulations of OSHA EPA and other government agencies which have resulted in formulation changes to meet VOC and toxicity requirements Tables of numerous military commercial industry and NASA specifications are given to help the engineer select the proper callout **Learn Electronics with Arduino** Jody Culkin, Eric Hagan, 2017-09-12 This book is your introduction to physical computing with the Arduino microcontroller platform No prior experience is required not even an understanding of basic electronics With color illustrations easy to follow explanations and step by step instructions the book takes the beginner from building simple circuits on a breadboard to setting up the Arduino IDE and downloading and writing sketches to run on the Arduino Readers will be introduced to basic electronics theory and programming concepts as well as to digital and analog inputs and outputs Throughout the book debugging practices are highlighted so novices will know what to do if their circuits or their code doesn't work for the current project and those that they embark on later for themselves After completing the projects in this book readers will

have a firm basis for building their own projects with the Arduino Written for absolute beginners with no prior knowledge of electronics or programming Filled with detailed full color illustrations that make concepts and procedures easy to follow An accessible introduction to microcontrollers and physical computing Step by step instructions for projects that teach fundamental skills Includes a variety of Arduino based projects using digital and analog input and output

Industrial Communication Technology Handbook Richard Zurawski, 2017-12-19 Featuring contributions from major technology vendors industry consortia and government and private research establishments the Industrial Communication Technology Handbook Second Edition provides comprehensive and authoritative coverage of wire and wireless based specialized communication networks used in plant and factory automation automotive applications avionics building automation energy and power systems train applications and more New to the Second Edition 46 brand new chapters and 21 substantially revised chapters Inclusion of the latest most significant developments in specialized communication technologies and systems Addition of new application domains for specialized networks The Industrial Communication Technology Handbook Second Edition supplies readers with a thorough understanding of the application specific requirements for communication services and their supporting technologies It is useful to a broad spectrum of professionals involved in the conception design development standardization and use of specialized communication networks as well as academic institutions engaged in engineering education and vocational training

Electronics Administration and Supply United States. Bureau of Naval Personnel, 1959

Practical Electronics J. M. Hughes, 2015-03-16 How much do you need to know about electronics to create something interesting or creatively modify something that already exists If you'd like to build an electronic device but don't have much experience with electronics components this hands on workbench reference helps you find answers to technical questions quickly Filling the gap between a beginner's primer and a formal textbook Practical Electronics explores aspects of electronic components techniques and tools that you would typically learn on the job and from years of experience Even if you've worked with electronics or have a background in electronics theory you're bound to find important information that you may not have encountered before Among the book's many topics you'll discover how to Read and understand the datasheet for an electronic component Use uncommon but inexpensive tools to achieve more professional looking results Select the appropriate analog and digital ICs for your project Select and assemble various types of connectors Do basic reverse engineering on a device in order to modify hack it Use open source tools for schematic capture and PCB layout Make smart choices when buying new or used test equipment

Practical Audio Electronics Kevin Robinson, 2020-02-10 Practical Audio Electronics is a comprehensive introduction to basic audio electronics and the fundamentals of sound circuit building providing the reader with the necessary knowledge and skills to undertake projects from scratch Imparting a thorough foundation of theory alongside the practical skills needed to understand build modify and test audio circuits this book equips the reader with the tools to explore the sonic possibilities that emerge when electronics technology is applied innovatively to

the making of music Suitable for all levels of technical proficiency this book encourages a deeper understanding through highlighted sections of advanced material and example projects including circuits to make alter and amplify audio providing a snapshot of the wide range of possibilities of practical audio electronics An ideal resource for students hobbyists musicians audio professionals and those interested in exploring the possibilities of hardware based sound and music creation [Naval Shore Electronics Criteria](#) United States. Naval Electronic Systems Command,1971

Handbook on Digital Twin and Artificial Intelligence Techniques for Rail Applications Maksym Spiryagin,Stefano Bruni,Colin Cole,2025-06-17 With contributions from experts from around the world this handbook aims to systemize the existing experience and knowledge that can be used to the development of more efficient and controlled railway systems As a result this handbook showcases the modern methods methodologies and frameworks for the development of DT and AI architectures and apparatus in the area of the existing railway systems and transport engineering tasks The chapters cover such varied and specialized topics as the processes related to the transformation of a physical twin into a digital twin the application of data driven and physics based simulation approaches in the development of digital twins asset management application tasks with the implementation of DT and AI and the experimental and field applications of the DT and AI concepts and technologies in railway transport system design and predictive maintenance tasks Handbook on Digital Twin and Artificial Intelligence Techniques for Rail Applications is essential reading for engineers practitioners and researchers involved in the development of railway transport and transit systems [Applied Analog Electronics: A First Course In Electronics](#) Kevin Karplus,2023-06-06 This textbook is for a first course on electronics It assumes no prior electronics experience but does assume that students have had calculus 1 single variable differential calculus and high school physics A key idea of the course is that students need a lot of design experience and hands on work rather than a lot of theory The course is centered around the labs which are a mix of design labs and measurement modeling labs This unique volume takes students from knowing no electronics to being able to design and build amplifier and filter circuits for connecting sensors to microcontrollers within 20 weeks Students design a digital thermometer a blood pressure meter an optical pulse monitor an EKG an audio preamplifier and a class D power amplifier They also learn how to measure and characterize components including impedance spectroscopy of a loudspeaker and of electrochemical electrodes Related Link s [Digital Signal Processing in Power Electronics Control Circuits](#) Krzysztof Sozański,2017-05-10 This revised and extended second edition covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing DSP methods This book discusses signal processing starting from analog signal acquisition through conversion to digital form methods of filtration and separation and ending with pulse control of output power transistors The book is focused on two applications for the considered methods of digital signal processing a three phase shunt active power filter and a digital class D audio power amplifier The book bridges the gap between power electronics and digital signal

processing Many control algorithms and circuits for power electronics in the current literature are described using analog transmittances This may not always be acceptable especially if half of the sampling frequencies and half of the power transistor switching frequencies are close to the band of interest Therefore in this book a digital circuit is treated as a digital circuit with its own peculiar characteristics rather than an analog circuit This helps to avoid errors and instability This edition includes a new chapter dealing with selected problems of simulation of power electronics systems together with digital control circuits The book includes numerous examples using MATLAB and PSIM programs

The Industrial Communication Technology Handbook Richard Zurawski, 2005-02-23 The Industrial Communication Technology Handbook focuses on current and newly emerging communication technologies and systems that are evolving in response to the needs of industry and the demands of industry led consortia and organizations Organized into two parts the text first summarizes the basics of data communications and IP networks then presents a comprehensive overview of the field of industrial communications This book extensively covers the areas of fieldbus technology industrial Ethernet and real time extensions wireless and mobile technologies in industrial applications the linking of the factory floor with the Internet and wireless fieldbuses network security and safety automotive applications automation and energy system applications and more The Handbook presents material in the form of tutorials surveys and technology overviews combining fundamentals and advanced issues with articles grouped into sections for a cohesive and comprehensive presentation The text contains 42 contributed articles by experts from industry and industrial research establishments at the forefront of development and some of the most renowned academic institutions worldwide It analyzes content from an industrial perspective illustrating actual implementations and successful technology deployments

Inside Solid State Drives (SSDs) Rino Micheloni, Alessia Marelli, Kam Eshghi, 2012-10-15 Solid State Drives SSDs are gaining momentum in enterprise and client applications replacing Hard Disk Drives HDDs by offering higher performance and lower power In the enterprise developers of data center server and storage systems have seen CPU performance growing exponentially for the past two decades while HDD performance has improved linearly for the same period Additionally multi core CPU designs and virtualization have increased randomness of storage I/Os These trends have shifted performance bottlenecks to enterprise storage systems Business critical applications such as online transaction processing financial data processing and database mining are increasingly limited by storage performance In client applications small mobile platforms are leaving little room for batteries while demanding long life out of them Therefore reducing both idle and active power consumption has become critical Additionally client storage systems are in need of significant performance improvement as well as supporting small robust form factors Ultimately client systems are optimizing for best performance power ratio as well as performance cost ratio SSDs promise to address both enterprise and client storage requirements by drastically improving performance while at the same time reducing power Inside Solid State Drives walks the reader through all the main topics related to SSDs from NAND Flash to

memory controller hardware and software from I/O interfaces PCIe SAS SATA to reliability from error correction codes BCH and LDPC to encryption from Flash signal processing to hybrid storage We hope you enjoy this tour inside Solid State Drives

VLSI Electronics Norman G. Einspruch, 2014-12-01 VLSI Electronics Microstructure Science Volume 3 evaluates trends for the future of very large scale integration VLSI electronics and the scientific base that supports its development This book discusses the impact of VLSI on computer architectures VLSI design and design aid requirements and design fabrication and performance of CCD imagers The approaches potential and progress of ultra high speed GaAs VLSI computer modeling of MOSFETs and numerical physics of micron length and submicron length semiconductor devices are also elaborated This text likewise covers the optical linewidth measurements on photomasks and wafers and effects of materials technology and fabrication tolerances on guided wave optical communication and signal processing This volume is recommended for scientists and engineers who wish to become familiar with VLSI electronics device designers concerned with the fundamental character of and limitations to device performance systems architects who will be charged with tying VLSI circuits together and engineers conducting work on the utilization of VLSI circuits in specific areas of application Electronic Properties of Materials D.L. Grigsby, D.H. Johnson, M. Neuberger, S.J. Welles, 2013-11-21 Computers, Networks, Systems, and Industrial Engineering 2011 Roger Y. Lee, 2011-05-08 The series Studies in Computational Intelligence SCI publishes new developments and advances in the various areas of computational intelligence quickly and with a high quality The intent is to cover the theory applications and design methods of computational intelligence as embedded in the fields of engineering computer science physics and life science as well as the methodologies behind them The series contains monographs lecture notes and edited volumes in computational intelligence spanning the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems Critical to both contributors and readers are the short publication time and world wide distribution this permits a rapid and broad dissemination of research results The purpose of the 1st ACIS International Conference on Computers Networks Systems and Industrial Engineering CNSI 2011 was held on May 23-25 2011 in Jeju Jeju Island South Korea is to bring together scientist engineers computer users students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the best 22 papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review Handbook of Force Transducers Dan Mihai Stefanescu, 2011-03-16 Part I introduces the basic Principles and Methods of Force Measurement according to a classification into a dozen of force transducers types resistive inductive capacitive piezoelectric electromagnetic electrodynamic magnetoelastic

galvanomagnetic Hall effect vibrating wires micro resonators acoustic and gyroscopic Two special chapters refer to force balance techniques and to combined methods in force measurement Part II discusses the Strain Gauge Force Transducers Components evolving from the classical force transducer to the digital intelligent one with the incorporation of three subsystems sensors electromechanics and informatics The elastic element EE is the heart of the force transducer and basically determines its performance A 12 type elastic element classification is proposed stretched compressed column or tube bending beam bending and or torsion shaft middle bent bar with fixed ends shear beam bending ring yoke or frame diaphragm axial stressed torus axisymmetrical and voluminous EE with emphasis on the optimum location of the strain gauges The main properties of the associated Wheatstone bridge best suited for the parametrical transducers are examined together with the appropriate electronic circuits for SGFTs The handbook fills a gap in the field of Force Measurement both experts and newcomers no matter of their particular interest finding a lot of useful and valuable subjects in the area of Force Transducers in fact it is the first specialized monograph in this inter and multidisciplinary field

Power Electronics Handbook Muhammad H. Rashid, 2023-09-27 Power Electronics Handbook Fifth Edition delivers an expert guide to power electronics and their applications The book examines the foundations of power electronics power semiconductor devices and power converters before reviewing a constellation of modern applications Comprehensively updated throughout this new edition features new sections addressing current practices for renewable energy storage transmission integration and operation as well as smart grid security intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles This handbook is aimed at practitioners and researchers undertaking projects requiring specialist design analysis installation commissioning and maintenance services Provides a fully comprehensive work addressing each aspect of power electronics in painstaking depth Delivers a methodical technical presentation in over 1500 pages Includes 50 contributions prepared by leading experts Offers practical support and guidance with detailed examples and applications for lab and field experimentation Includes new technical sections on smart grid security and intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles Features new chapter level templates and a narrative progression to facilitate understanding

Biomedical Engineering, Trends in Electronics Anthony Laskovski, 2011-01-08 Rapid technological developments in the last century have brought the field of biomedical engineering into a totally new realm Breakthroughs in material science imaging electronics and more recently the information age have improved our understanding of the human body As a result the field of biomedical engineering is thriving with new innovations that aim to improve the quality and cost of medical care This book is the first in a series of three that will present recent trends in biomedical engineering with a particular focus on electronic and communication applications More specifically wireless monitoring sensors medical imaging and the management of medical information

Building Your Own Electronics Lab Dale Wheat, 2012-09-25 What should

an electronics hackerspace look like Is it in your bedroom garage a classroom or even a suitcase And where do you start What parts are essential and which are just nice to have And how do you organize it all Dale Wheat the author of Arduino Internals will show you how to build your own electronics lab complete with tools parts and power sources You ll learn how to create a portable lab a small lab to save space and even a lab for small groups and classrooms You ll learn which parts and tools are indispensable no matter what type projects you re working on which soldering irons are best which tools cables and testing equipment you ll need You ll also learn about different chips boards sensors power sources and which ones you ll want to keep on hand Finally you ll learn how to assemble everything for the type of lab best suited to your needs If you need to carry everything to your local makerspace you can build the Portable Lab If you plan to tinker at home or in the garage there is the Corner Lab If you re going to run your own local makerspace or you need to set up a lab to teach others there is the Small Group Lab No matter what your gadgeteering needs may be Building Your Own Electronics Lab will show you exactly how to put it all together so you have what you need to get started

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