

Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BD 176-10	BD179	BD234	BD233	BD 234 BD 235 BD 236 BD 237 BD 238	BD235
BD 177		BD179	BD234		
BD 177-10		BD179	BD235		
BD 178		BD236	BD236		
BD 179			BD237		
BD 179-10	BD180	BD179	BD238		
BD 179-16		BD179	BD239	BD241 A	
BD 180		BD238	BD239A	BD241 A	
BD 180-10		BD238	BD239B	BD241 B	
BD 181		BDW51 C	BD239 C		
BD 182		BDW51 C	BD240	BD242 B	
BD 183		BDW51 C	BD240 A	BD242 B	
BD 184		BDW51 C	BD240 B	BD242 B	
BD 185		BD435	BD240 C	BD242 C	
BD 186		BD436	BD241	BD241 A	
BD 187		BD437	BD241 A	BD 241 B	
BD 188		BD438	BD241 B	BD 241 C	
BD 189		BD439	BD241 C		
BD 190		BD440	BD242	BD242 A	
BD 195		BD535	BD242 A	BD 242 A	
BD 196		BD534	BD242 B	BD 242 B	
BD 197		BD535	BD242 C	BD 242 C	
BD 198		BD536	BD243		
BD 199		BD537	BD243 A	BD243 B	
BD 200	BD538	BD243 B	BD 243 B		
BD 201	BD707	BD243 C	BD 243 C		
BD 202	BD708	BD244			
BD 203	BD707	BD244 A	BD244 B		
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BD 205	BD909	BD244 C	BD 244 B		
BD 206	BD910	BD245			
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BD 213-80	2N6488	BD246 A	TIP34C		
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BD 214-80	BD912	BD249	TIP35C		
BD 220	BD537	BD249 A	TIP35C		
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BD 230	BD179	BD253 C	BU326 A		
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BD 232	MJE340	BD262 A	BD680		

Transistor Cross Reference Guide

Jung-Hun Seo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Transistor Cross Reference Guide:

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Vaughan,1992 **Wide Bandgap Semiconductor Based Micro/Nano Devices** Jung-Hun Seo,2019-04-25 While group IV or III V based device technologies have reached their technical limitations e g limited detection wavelength range or low power handling capability wide bandgap WBG semiconductors which have band gaps greater than 3 eV have gained significant attention in recent years as a key semiconductor material in high performance optoelectronic and electronic devices These WBG semiconductors have two definitive advantages for optoelectronic and electronic applications due to their large bandgap energy WBG energy is suitable to absorb or emit ultraviolet UV light in optoelectronic devices It also provides a higher electric breakdown field which allows electronic devices to possess higher breakdown voltages This Special Issue seeks research papers short communications and review articles that focus on novel synthesis processing designs fabrication

and modeling of various WBG semiconductor power electronics and optoelectronic devices *Popular Electronics* ,1977

Nanoelectronic Materials, Devices and Modeling Qiliang Li,Hao Zhu,2019-07-15 As CMOS scaling is approaching the fundamental physical limits a wide range of new nanoelectronic materials and devices have been proposed and explored to extend and or replace the current electronic devices and circuits so as to maintain progress with respect to speed and integration density The major limitations including low carrier mobility degraded subthreshold slope and heat dissipation have become more challenging to address as the size of silicon based metal oxide semiconductor field effect transistors MOSFETs has decreased to nanometers while device integration density has increased This book aims to present technical approaches that address the need for new nanoelectronic materials and devices The focus is on new concepts and knowledge in nanoscience and nanotechnology for applications in logic memory sensors photonics and renewable energy This research on nanoelectronic materials and devices will be instructive in finding solutions to address the challenges of current electronics in switching speed power consumption and heat dissipation and will be of great interest to academic society and the industry Resources in Education ,1991

Miniaturized Silicon Photodetectors Maurizio Casalino,2021-01-15 Silicon Si technologies provide an excellent platform for the design of microsystems where photonic and microelectronic functionalities are monolithically integrated on the same substrate In recent years a variety of passive and active Si photonic devices have been developed and among them photodetectors have attracted particular interest from the scientific community Si photodiodes are typically designed to operate at visible wavelengths but unfortunately their employment in the infrared IR range is limited due to the neglectable Si absorption over 1100 nm even though the use of germanium Ge grown on Si has historically allowed operations to be extended up to 1550 nm In recent years significant progress has been achieved both by improving the performance of Si based photodetectors in the visible range and by extending their operation to infrared wavelengths Near infrared NIR SiGe photodetectors have been demonstrated to have a zero change CMOS process flow while the investigation of new effects and structures has shown that an all Si approach could be a viable option to construct devices comparable with Ge technology In addition the capability to integrate new emerging 2D and 3D materials with Si together with the capability of manufacturing devices at the nanometric scale has led to the development of new device families with unexpected performance Accordingly this Special Issue of Micromachines seeks to showcase research papers short communications and review articles that show the most recent advances in the field of silicon photodetectors and their respective applications

Silver Nano/microparticles: Modification and Applications Bong-Hyun Jun,Won Yeop Rho,2019-07-26 Nano micro size particles are widely applied in various fields Among the various particles silver particles are considered among the most prominent nanomaterials in the biomedical and industrial sectors because of their favorable physical chemical and biological characteristics Thus numerous studies have been conducted to evaluate their properties and utilize them in various applications such as diagnostics anti bacterial and anti cancer

therapeutics and optoelectronics The properties of silver particles are strongly influenced by their size morphological shape and surface characteristics which can be modified by diverse synthetic methods reducing agents and stabilizers This Special Issue provides a range of original contributions detailing the synthesis modification properties and applications of silver materials Nine outstanding papers describing examples of the most recent advances in silver nano microparticles are included Silver nano micro size particles have many potential advantages as next generation materials in various areas including nanomedicine This Special Issue might be helpful to understand the value of silver particles in the biomedical and industrial fields

Influence of Temperature on Microelectronics and System Reliability Pradeep Lall, Michael G. Pecht, Edward B. Hakim, 2020-07-09 This book raises the level of understanding of thermal design criteria It provides the design team with sufficient knowledge to help them evaluate device architecture trade offs and the effects of operating temperatures The author provides readers a sound scientific basis for system operation at realistic steady state temperatures without reliability penalties Higher temperature performance than is commonly recommended is shown to be cost effective in production for life cycle costs The microelectronic package considered in the book is assumed to consist of a semiconductor device with first level interconnects that may be wirebonds flip chip or tape automated bonds die attach substrate substrate attach case lid lid seal and lead seal The temperature effects on electrical parameters of both bipolar and MOSFET devices are discussed and models quantifying the temperature effects on package elements are identified Temperature related models have been used to derive derating criteria for determining the maximum and minimum allowable temperature stresses for a given microelectronic package architecture The first chapter outlines problems with some of the current modeling strategies The next two chapters present microelectronic device failure mechanisms in terms of their dependence on steady state temperature temperature cycle temperature gradient and rate of change of temperature at the chip and package level Physics of failure based models used to characterize these failure mechanisms are identified and the variabilities in temperature dependence of each of the failure mechanisms are characterized Chapters 4 and 5 describe the effects of temperature on the performance characteristics of MOS and bipolar devices Chapter 6 discusses using high temperature stress screens including burn in for high reliability applications The burn in conditions used by some manufacturers are examined and a physics of failure approach is described The

Robust Electronic Design Reference Book: no special title John R. Barnes, 2004 If you design electronics for a living you need Robust Electronic Design Reference Book Written by a working engineer who has put over 115 electronic products into production at Sycor IBM and Lexmark Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that Work Are safe and reliable Can be manufactured tested repaired and serviced May be sold and used worldwide Can be adapted or enhanced to meet new and changing requirements

Memristors for Neuromorphic Circuits and Artificial Intelligence Applications Jordi Suñé, 2020-04-09 Artificial Intelligence AI has found many

applications in the past decade due to the ever increasing computing power Artificial Neural Networks are inspired in the brain structure and consist in the interconnection of artificial neurons through artificial synapses Training these systems requires huge amounts of data and after the network is trained it can recognize unforeseen data and provide useful information The so called Spiking Neural Networks behave similarly to how the brain functions and are very energy efficient Up to this moment both spiking and conventional neural networks have been implemented in software programs running on conventional computing units However this approach requires high computing power a large physical space and is energy inefficient Thus there is an increasing interest in developing AI tools directly implemented in hardware The first hardware demonstrations have been based on CMOS circuits for neurons and specific communication protocols for synapses However to further increase training speed and energy efficiency while decreasing system size the combination of CMOS neurons with memristor synapses is being explored The memristor is a resistor with memory which behaves similarly to biological synapses This book explores the state of the art of neuromorphic circuits implementing neural networks with memristors for AI applications

Miniaturized Transistors Lado Filipovic, Tibor Grasser, 2019-06-24 What is the future of CMOS Sustaining increased transistor densities along the path of Moore's Law has become increasingly challenging with limited power budgets interconnect bandwidths and fabrication capabilities In the last decade alone transistors have undergone significant design makeovers from planar transistors of ten years ago technological advancements have accelerated to today's FinFETs which hardly resemble their bulky ancestors FinFETs could potentially take us to the 5 nm node but what comes after it From gate all around devices to single electron transistors and two dimensional semiconductors a torrent of research is being carried out in order to design the next transistor generation engineer the optimal materials improve the fabrication technology and properly model future devices We invite insight from investigators and scientists in the field to showcase their work in this Special Issue with research papers short communications and review articles that focus on trends in micro and nanotechnology from fundamental research to applications

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