

## Point Contact Diode

- The point contact diode, a fundamental component in electronics, acts as a one-way valve for electrical current, based on the P-N junction principle
- Its structure comprises a semiconductor crystal and a metal wire, with performance influenced by factors like contact pressure and crystal purity
- Historically significant in early radio technology, these diodes laid groundwork for transistor development
- Though largely replaced by advanced diodes, they remain emblematic of electronics' origins



# Define Point Contact Diode

**CO Houle**



## Define Point Contact Diode:

**The ARRL Extra Class License Manual for Ham Radio** H. Ward Silver, 2008 Pass the 50 question Extra Class test all the exam questions with answer key for use beginning July 1 2008 to June 30 2012 detailed explanations for all questions including FCC rules Cover **Analog Electronics and Semiconductor Devices** Mr. Rohit Manglik, 2024-03-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *SOLID STATE ELECTRONICS* DR SHARMA, DR EWIN, Diffusion of minority carriers in semiconductor work function in metals and semiconductors Junctions between metal and semiconductors Semiconductor and semiconductor p n Junction Depletion layer Junction Potential Width of depletion layer Field and Capacitance of depletion layer Forward A C and D C resistance of junction Reverse Breakdown Zener and Avalanche diodes Tunnel diodes Point contact diode their importance at High frequencies LED photo diodes Effect of temperature on Junction diode Thermistors Transistor parameters base width modulation transit time and life time of minority carriers Base Emitter resistance Collector conductance Base spreading resistance Diffusion capacitance Reverse feedback ratio Equivalent circuit for transistors Basic model hybrid model and Y parameter equivalent circuit Input and output impedances Current and Voltage gain Biasing formulae for transistors Base bias emitter bias and mixed type bias and mixed type biasing for small and large signal operation Transistor circuit application at low frequencies their AC and DC equivalent for three different modes of operation Large signal operation of transistors Transistor Power amplifiers Class A and B operation Maximum power output Effect of temperature heat sinks thermal resistance Distortions in amplifiers cascading of stages Frequency response Negative and positive feedback in transistor amplifiers Field effect transistors and their characteristics biasing of FET use in pre amplifiers MOSFET and their simple uses Power Supplies Electronically regulated low and high voltage power supplies Inverters for battery operated equipments Miscellaneous Basic linear integrated circuits photo transistors Silicon Controlled rectifiers Injunction transistor and their simple uses **Switching in Semiconductor Diodes** Y.R. Nosov, 2013-12-14 It gives me great pleasure to learn that this book whose origin owes much to the work of American scientists and engineers on semiconductor technology will reach American and other English speaking readers I am grateful to Plenum Publishing Corporation for arranging the American edition of this book and to Mr Albin Tybulewicz for his translation September 5 1968 Yu R Nosov v Preface to the Russian Edition One of the most important applications of semiconductor diodes is their use in electronic pulse circuits The response of these diodes under switching conditions is governed by the phenomena of accumulation and dispersal of non equilibrium carriers which are also observed in other p n junction devices It was found in the late 1940 s that when point contact germanium diodes were used in circuits through which short several tenths of a microsecond electrical pulses were

being passed the 1 effective reverse resistance of these diodes decreased considerably below the static value Further studies showed that when a diode was switched rapidly from the forward to the reverse direction an anomalously large reverse current flowed for some time In view of the importance of this phenomenon in the efforts to reduce the response time of pulse circuits many investigations of the phenomenon were carried out and these investigations provided the basis of a theory of transient processes in semiconductor diodes

**Planar Processing Primer** G. Anner, 2012-12-06 Planar Processing Primer is based on lecture notes for a silicon planar processing lecture lab course offered at the University of Illinois UC for over fifteen years Directed primarily to electrical engineering upperclassmen and graduate students the material also has been used successfully by graduate students in physics and ceramic and metallurgical engineering It is suitable for self study by engineers trained in other disciplines who are beginning work in the semiconductor fields and it can make circuit design engineers aware of the processing limitations under which they must work The text describes and explains at an introductory level the principal processing steps used to convert raw silicon into a semiconductor device or integrated circuit First order models are used for theoretical treatments e g of diffusion and ion implantation with reference made to more advanced treatments to computer programs such as SUPREM that include higher order effects and to interactions among sequential processes In Chapters 8 9 and to the application of silicon processes to compound semiconductors is discussed briefly Over the past several years the size of transistors has decreased markedly allowing more transistors per chip unit area and chip size has increased

**Thermal Physics and Semiconductor Device (English Edition)**  
Dr. Vikram Singh, Dr. Ajay Kumar Singh, 2022-01-16 Thakur Publication proudly presents the Thermal Physics and Semiconductor Devices e Book specifically designed for B Sc 2nd Sem students at U P State Universities This comprehensive e Book serves as an indispensable resource for understanding the fundamental principles and applications of thermal physics and semiconductor devices Authored by subject matter experts this English edition e Book covers the common syllabus prescribed by U P State Universities It delves into the fascinating realms of thermal physics exploring concepts such as heat transfer thermodynamics and kinetic theory Additionally it provides a detailed examination of semiconductor devices including diodes transistors and integrated circuits

**PHYSICS M. SINGH, 1 Semiconductor Devices**  
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Intrinsic and Extrinsic Semiconductors Electrical Properties of Semiconductor P N Junction Diode Semiconductor Diode Expression for Width of Depletion Layer and Potential Barrier Biasing of a P N Junction V I Characteristics of a P N Junction Important Terms used in P N Junction Avalanche and Zener Breakdown Ideal Diode Point Contact Diode Zener Diode Varactor or Varicap Diode Tunnel Diode Photo Diode Light Emitting Diode LED Schottky Diode Liquid Crystal Displays LCD Solar Cell Solar Photo Voltaic Cell Junction Transfer Bipolar Junction Transistor Transistor Terminals Transistor Action Transistor Symbols Operating Conditions of a Transistor Rectification Half Wave Rectifier Full Wave Rectifier Power Supply Regulated Power Supply Integrated Circuits ICS 2 Transistors Transistor Connections Early Effect or Base Width Modulation

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**Advanced Class License Manual for the Radio Amateur** ,1986      Electronic Methods ,2011-09-21 Electronic Methods  
**ARRL Advanced License Manual** James E. Kearman,1991-12-12

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