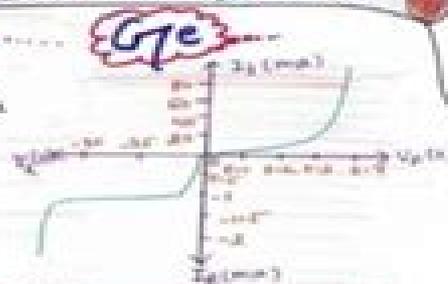


# Basic Electronics

## V-I CHARACTERISTICS OF SILICON AND GERMANIUM

### FORWARD CHARACTERISTICS

- A very small forward current flows until the forward voltage exceeds 0.3V.
- When the forward voltage exceeds 0.3V, the current increases rapidly.

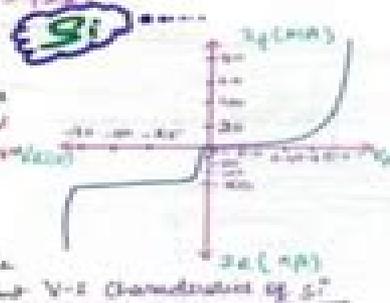


### REVERSE CHARACTERISTICS

- When the applied reverse voltage is below the breakdown voltage, the diode current is very small, typically around 2mA (which is lower than the reverse current for a silicon diode).
- When the reverse voltage exceeds breakdown voltage (around 50V) the current ↑ very rapidly.
- Reverse breakdown voltage for Ge is less than that of Si from the characteristic  $|I_r| \gg |I_s|$ .

### FORWARD CHARACTERISTICS

- A very small forward current flows until the forward voltage exceeds 0.7V.
- When the forward voltage exceeds 0.7V, the current increases rapidly.



### REVERSE CHARACTERISTICS

- When the applied voltage below the breakdown voltage, the diode current is very small (around 100 nA).
- When the reverse voltage is exceeds breakdown voltage (around 70V) the current increases very rapidly.
- from the characteristic  $|I_r| \gg |I_s|$ .

# Industrial Electronics Lecture Notes

**JG Myers**



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## **Table of Contents Industrial Electronics Lecture Notes**

1. Understanding the eBook Industrial Electronics Lecture Notes
  - The Rise of Digital Reading Industrial Electronics Lecture Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics Lecture Notes
  - 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 Industrial Electronics Lecture Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics Lecture Notes
  - Personalized Recommendations
  - Industrial Electronics Lecture Notes User Reviews and Ratings
  - Industrial Electronics Lecture Notes and Bestseller Lists
5. Accessing Industrial Electronics Lecture Notes Free and Paid eBooks

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  - Industrial Electronics Lecture Notes eBook Subscription Services
  - Industrial Electronics Lecture Notes Budget-Friendly Options
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    - ePub, PDF, MOBI, and More
    - Industrial Electronics Lecture Notes Compatibility with Devices
    - Industrial Electronics Lecture Notes Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Industrial Electronics Lecture Notes
    - Highlighting and Note-Taking Industrial Electronics Lecture Notes
    - Interactive Elements Industrial Electronics Lecture Notes
  8. Staying Engaged with Industrial Electronics Lecture Notes
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Industrial Electronics Lecture Notes
  9. Balancing eBooks and Physical Books Industrial Electronics Lecture Notes
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Industrial Electronics Lecture Notes
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Industrial Electronics Lecture Notes
    - Setting Reading Goals Industrial Electronics Lecture Notes
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Industrial Electronics Lecture Notes
    - Fact-Checking eBook Content of Industrial Electronics Lecture Notes
    - 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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