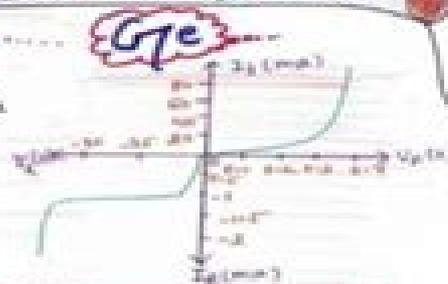


Basic Electronics

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.

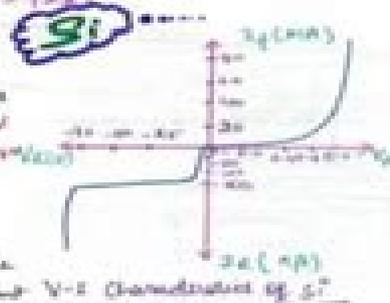


REVERSE CHARACTERISTICS

- 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 $|I_r| \gg |I_s|$

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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
 - Industrial Electronics Lecture Notes Public Domain eBooks
 - Industrial Electronics Lecture Notes eBook Subscription Services
 - Industrial Electronics Lecture Notes Budget-Friendly Options
6. Navigating Industrial Electronics Lecture Notes eBook Formats
 - 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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