

Field-Effect Transistors

by Ray Marston

Field-Effect Transistors (FETs) are unipolar devices, and have two big advantages over bipolar transistors: one is that they have a near-infinite input resistance and thus offer near-infinite current and power gain; the other is that their switching action is not marred by charge-storage problems, and they thus outperform most bipolars in terms of digital switching speeds.

Several different basic types of FETs are available, and this opening episode looks at their basic operating principles. Parts 2 to 4 of the series will show practical ways of using FETs.

FET BASICS

An FET is a three-terminal amplifying device. Its terminals are known as the source, gate, and drain, and correspond respectively to the emitter, base, and collector of a normal transistor. Two distinct families of FETs are in general use. The first of these is known as 'junction-gate' types of FETs; this term generally being abbreviated to either JGFET or (more usually) JFET.

The second family is known as either 'insulated-gate' FETs or Metal Oxide Semiconductor FETs, and these terms are generally abbreviated to IGFET or MOSFET, respectively. 'N-channel' and 'p-channel' versions of both types of FET are available, just as normal transistors are available in npn and pnp versions. Figure 1 shows the symbols and supply polarities of both types of bipolar transistor, and compares them with both JFET versions.

Figure 2 illustrates the basic construction and operating principles of a simple n-channel JFET. It consists of a bar of n-type semiconductor mate-

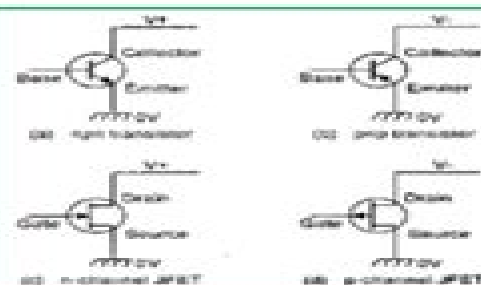


Figure 1. Comparison of transistor and JFET symbols, notations, and supply polarities.

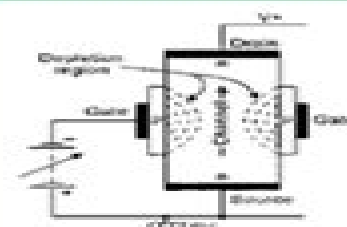


Figure 2. Basic structure of a simple n-channel JFET, showing how channel width is controlled via the gate bias.

rial with a drain terminal at one end and a source terminal at the other. A p-type control electrode or gate surrounds (and is joined to the surface of) the middle section of the n-type bar, thus forming a p-n junction.

In normal use, the drain terminal is connected to a positive supply and the gate is biased at a value that is negative (or equal) to the source voltage, thus reverse-biasing the JFET's internal p-n junction, and accounting for its very high input impedance.

With zero gate bias applied, a current flow from drain to source via a conductive 'channel' in the n-type bar is formed. When negative gate bias is applied, a high-resistance region is formed within the junction, and reduces the width of the n-type conduction channel and thus reduces the magnitude of the drain-to-source current. As the gate bias is increased, the 'depletion' region spreads deeper into the n-type channel, until eventually, at some 'pinch-off' voltage value, the depletion layer

becomes so deep that conduction ceases.

Thus, the basic JFET of Figure 2 passes maximum current when its gate bias is zero, and its current is reduced or 'depleted' when the gate bias is increased. It is thus known as a 'depletion-type' n-channel JFET. A p-channel version of the device can (in principle) be made by simply transposing the p and n materials.

JFET DETAILS

Figure 3 shows the basic form of construction of a practical n-channel JFET; a p-channel JFET can be made by transposing the p and n materials. All JFETs operate in the depletion mode, as already described. Figure 4 shows the typical transfer characteristics of a low-power n-channel JFET, and illustrates some important features of this type of device. The most important characteristics of the JFET are as follows:

- (1). When a JFET is connected to a supply with the polarity shown in Figure 1 (drain -ve for

an n-channel FET, -ve for a p-channel FET), a drain current (I_D) flows and can be controlled via a gate-to-source bias voltage V_{GS} .

- (2). I_D is greatest when $V_{GS} = 0$, and is reduced by applying a reverse bias to the gate (negative bias in an n-channel device, positive bias in a p-type). The magnitude of V_{GS} needed to reduce I_D to zero is called the 'pinch-off' voltage, V_P , and typically has a value between 2 and 10 volts. The magnitude of I_D when $V_{GS} = 0$ is denoted I_{DSS} , and typically has a value in the range 2 to 20mA.

- (3). The JFET's gate-to-source junction has the characteristics of a silicon diode. When reverse-biased, gate leakage currents (I_{GSS}) are only a couple of nA (1nA = 0.001μA) at room temperature. Actual gate signal currents are only a fraction of an nA, and the input impedance of the gate is typically thousands of megohms at low frequencies. The gate junction is shunted by a few pF, so the input impedance falls as frequency rises.

If the JFET's gate-to-source junction is forward-biased, it conducts like a normal silicon diode. If it is excessively reverse-biased, it



Figure 3. Construction of n-channel JFET.

Figure 4. Idealized transfer characteristics of an n-channel JFET.

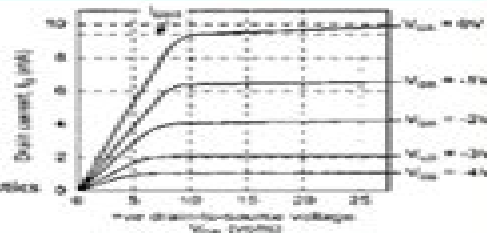
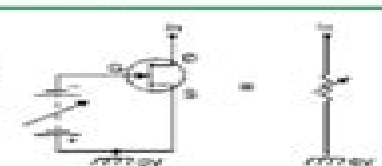


Figure 5. An n-channel JFET can be used as a voltage-controlled resistor.



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Table of Contents Fet Principles And Circuits Ray Marston

1. Understanding the eBook Fet Principles And Circuits Ray Marston
 - The Rise of Digital Reading Fet Principles And Circuits Ray Marston
 - Advantages of eBooks Over Traditional Books
2. Identifying Fet Principles And Circuits Ray Marston
 - 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 Fet Principles And Circuits Ray Marston
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fet Principles And Circuits Ray Marston
 - Personalized Recommendations
 - Fet Principles And Circuits Ray Marston User Reviews and Ratings
 - Fet Principles And Circuits Ray Marston and Bestseller Lists

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 - Fet Principles And Circuits Ray Marston eBook Subscription Services
 - Fet Principles And Circuits Ray Marston Budget-Friendly Options
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 - Fet Principles And Circuits Ray Marston Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fet Principles And Circuits Ray Marston
 - Highlighting and Note-Taking Fet Principles And Circuits Ray Marston
 - Interactive Elements Fet Principles And Circuits Ray Marston
8. Staying Engaged with Fet Principles And Circuits Ray Marston
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fet Principles And Circuits Ray Marston
9. Balancing eBooks and Physical Books Fet Principles And Circuits Ray Marston
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fet Principles And Circuits Ray Marston
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fet Principles And Circuits Ray Marston
 - Setting Reading Goals Fet Principles And Circuits Ray Marston
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fet Principles And Circuits Ray Marston
 - Fact-Checking eBook Content of Fet Principles And Circuits Ray Marston
 - 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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web 1 purchase and sale for and in consideration of the mutual covenants herein and other good and valuable consideration the receipt and sufficiency of which is hereby

changes to tennessee realtors forms 2020 to 2021 - May 31 2022

web 1 purchase and sale for and in consideration of the mutual covenants herein and other good and valuable consideration the receipt and sufficiency of which is hereby

tennessee association of realtors commercial purchase - Feb 08 2023

web tennessee association of realtors commercial purchase addendum home tn realtors va fha loan addendum prestige title insurance texas