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[Amplifier - Wikipedia](#)

A transistor is a semiconductor device used to amplify or switch electronic signals and electrical power. Transistors are one of the basic building blocks of modern electronics. It is composed of semiconductor material usually with at least three terminals for connection to an external circuit. A voltage or current applied to one pair of the transistor's terminals controls the current through ...

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A Bipolar Junction Transistor (BJT) is a three terminal circuit or device that amplifies flow of current. It is solid state device that flows current in two terminals, i.e., collector and emitter and controlled by third device known as terminal or base terminal.

[BC337 Transistor Pinout, Datasheet, Equivalent & Features](#)

A quick study of the table shows how MOSFETs work as analog amplifiers and digital switches. Since increasing the V_{gs} increases the drain current, enhancement MOSFETs can work as amplifiers. With a high input resistance, very little or no current flows into the gate. As a result, current flows through the main channel between the drain and source.

[Determining SPICE Model Parameters for Transistors Easily ...](#)

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The ULN2803A device is a 50 V, 500 mA Darlington transistor array. The device consists of eight NPN Darlington pairs that feature high-voltage outputs with common-cathode clamp diodes for switching inductive loads. The collector-current rating of each Darlington pair is 500 mA.

[\(PDF\) Pozar. Microwave Engineering | Abhinav Madnawat ...](#)

BC547 is a NPN transistor hence the collector and emitter will be left open (Reverse biased) when the base pin is held at ground and will be closed (Forward biased) when a signal is provided to base pin. BC547 has a gain value of 110 to 800, this value determines the amplification capacity of the transistor.

[ULN2003A data sheet, product information and support | TI.com](#)

Guerrilla RF has introduced the GRF5508 and GRF5510, two of 10 new ... W linear power amplifiers being released as part of the company's expansion into the cellular market. These new indium-gallium-phosphide heterojunction bipolar transistor amplifiers were designed specifically for 5G/4G wireless ...

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LTSpice simulation files for the Tech Notes article on Outphasing Modulation of High Efficiency Amplifiers. This is a follow up article to Mike Hamel s Sep/Oct 09 article, Phase Controlled Differential Drive for EER Amplifiers. Mike Hamel. David Cripes WO1U. NMOS 1x10_Wright.zip 1/2010

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