

Chapter 1 Microelectronic Circuits Sedra Smith 5th Edition

Bipolar junction transistor C. ISBN 978-0-19-514251-8 A bipolar junction transistor (BJT) is a type of transistor that uses both electrons and electron holes as charge carriers.

509. A. Retrieved August 10, 2016. S. February 7, 2009. Microelectronic Circuits (5th ed. p. Sedra; K. A bipolar transistor allows a small current injected at one of its terminals to control a much larger current between the remaining two terminals, making the device capable of amplification or switching. New York: Oxford. Smith (2004). In contrast, a unipolar transistor, such as a field-effect transistor (FET), uses only one kind of charge carrier.) f8c071cbab

BJTs use two p-n junctions between two semiconductor types, n-type and p-type, which are regions in a single crystal of material. The junctions can be made in several different ways, such as changing the doping of the semiconductor material as it is grown, by depositing metal pellets to form alloy junctions, or by such methods as diffusion of n-type and p... f8c071cbab

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