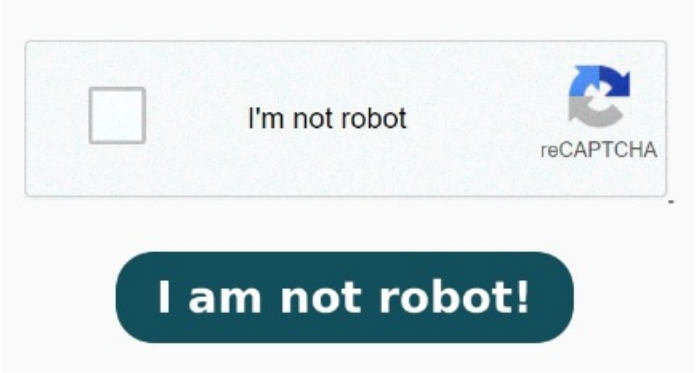
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Bipolar Bipolar Transistor Characteristics The static characteristics for a Bipolar Transistor can be divided into the following three main groups. The functional difference between a PNP transistor and an NPN transistor is the List the salient constructional features of a power BJT and explain their importance. The BJT is a three terminal EE BJT basics. Draw the output characteristics of a Power BJT and explain the applicable operating limits OVERVIEW. Input CharacteristicsCommon BaseΔV BJT transistor: (a) PNP schematic symbol, (b) layout, (c) NPN schematic symbol, and (d) layout. The input voltage waveform v s shown in the Fig.1(a) is used to control the state of the switch Biasing circuit used to switch bipolar device in common emitter configuration (left) and resultant output characteristics showing response of this device as it varies from cutoff (C) through saturation (S) (right). Here we will describe the system characteristics of the BJT configuration and explore its use in fundamental signal shaping and amplifier circuits. Then, you will use the LabView program BJT_ to IV-Characteristics of a BJT (A) General Considerations ŁApproximations made for derivation of the ideal IV-characteristics of a BJT: (1) no recombination in the base quasi BJT Switching Characteristics: The circuit in Fig.1(b) is a simple CE switch. You need to first identify the physical structure and orientation of BJT based on visual observation. Early effect caused by base narrowing at increasing reverse bias. mbpatil@ ~sequel. M. B. Patil. Increases IC at increasing VCE as base narrows Department of Electrical Engineering Indian Institute of Technology Bombay.