

An acronym for Field Effect Transistor. It is a bipolar transistor is a current amplifying device. An input current results in an amplified output current $H_{fe}=I_c/I_b$, where I_c is the output or collector current and I_b is the input or base current. The FET on the other hand is a transconductance device, that is an input voltage results in an output current $G=I_d/V_g$, where I_d is the output or drain current and V_g is the input or gate voltage. This assumes a common emitter connection for the bipolar transistor and a common source connection for the FET.

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