Bachelor of Engineering Electronic Engineering (HONS)

Headphone Amplifier Design

By

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Electronic Engineering

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Chapter 1

Simple transistor circuit

Figure 1.1 shows the basic NPN bipolar junction transistor circuit that base voltage makes transistor fully switch on.

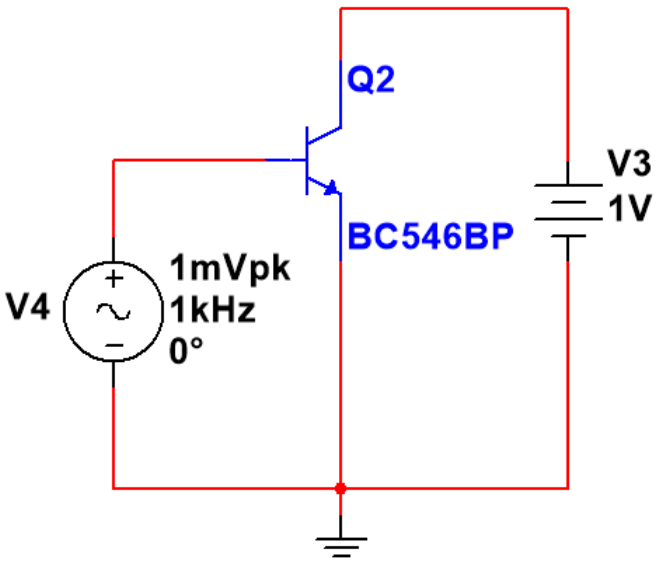

Figure 1.1: Single transistor circuit

I_B	9.09789μ
I_C	$2.02293m$
I_E	$-2.03003m$

Table 1.1: DC operating point analysis result

Therefore, we need a method which we can control the output current with, see Figure 1.2.

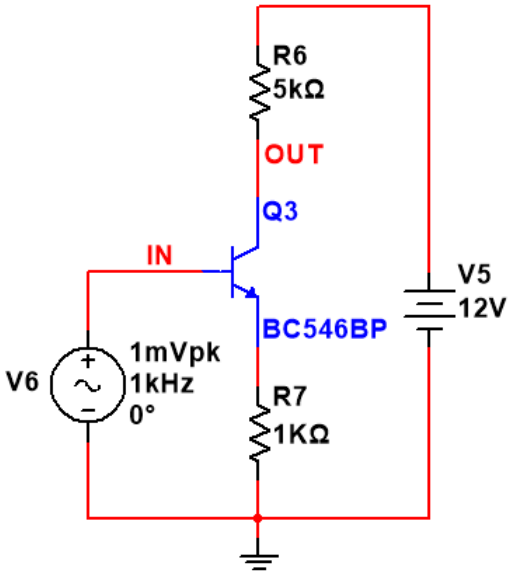

Figure 1.2: Basic transistor circuit with R_c and R_e

after