ABSTRACT

Transistor is an important component in electronic circuit. Almost all circuits use this kind of electronic transistors. The previous electronic circuits which are big in size are now becoming smaller because of the invention of transistors. However, they are easily damaged and it is hard to identify its kind. One way to identify the kinds and conditions of the transistor is by manual check using multitester. To checking of the transistor use multitester must though several stages or certain procedures.

Digital transistor tester is designed and established in this last project. This digital transistor tester is in the form of a circuit which is connected with a socket for the transistor feet so that it can be plugged and unplugged. The data then will be processed by a micro-controller and the output will be shown in a display.

This device is applied in order to accelerate the process of checking the kinds of transistor and the beta values and to make it more practical than using multimeter manual checking.

Keywords: transistor, digital tester, microcontroller