#### Kurzbeschreibung der Messungen mit dem Transistortester Version 1.11k

Karl-Heinz Kübbeler kh\_kuebbeler@web.de

15. März 2021

# Inhaltsverzeichnis

1	1 Beschreibung der BJT-Messungen	2
2	2 Beschreibung der MOSFET-Messungen	7

### Kapitel 1

## Beschreibung der BJT-Messungen

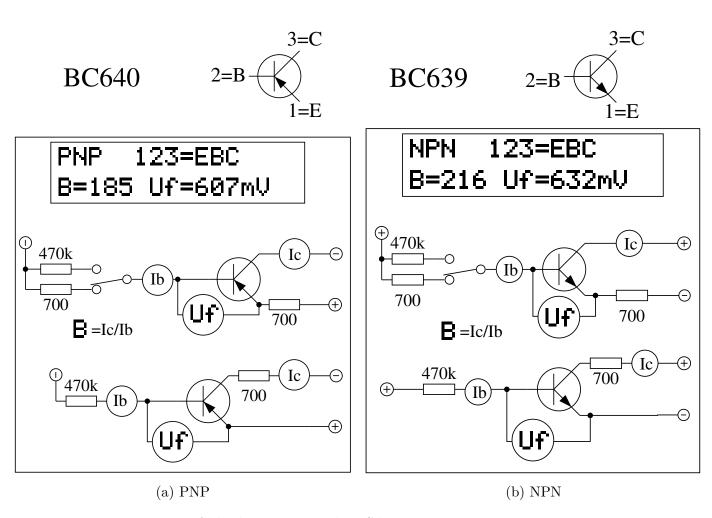


Abbildung 1.1. Bipolare Silizium Transistoren

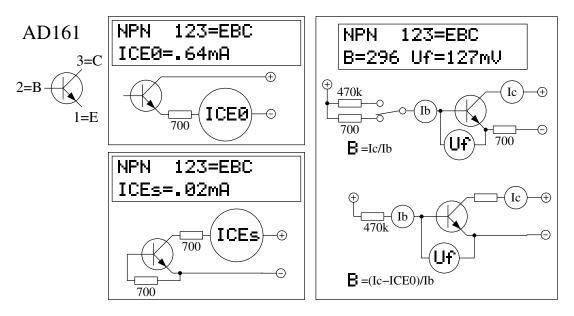


Abbildung 1.2. NPN-Germanium-Transistor

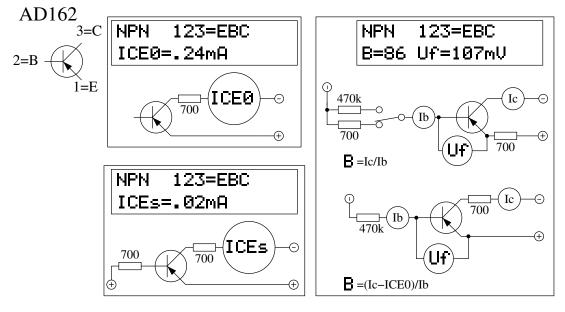


Abbildung 1.3. PNP-Germanium-Transistor

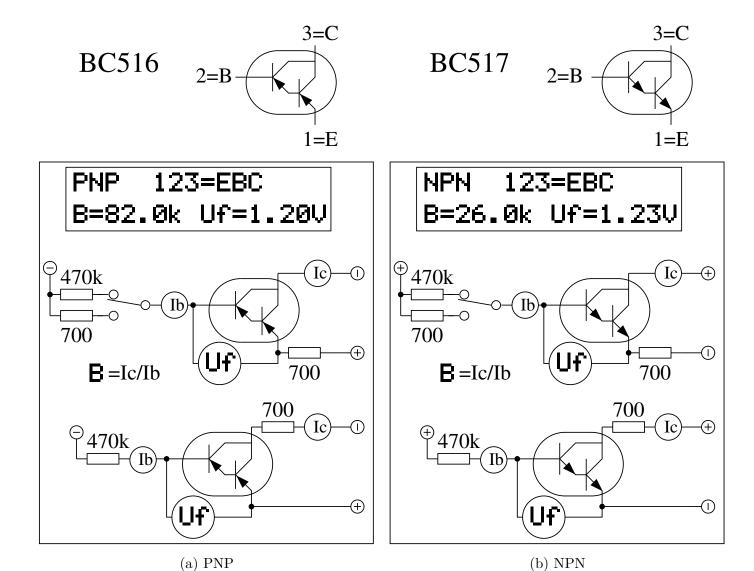
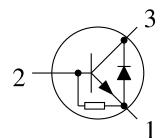


Abbildung 1.4. Silizium Darlington-Transistoren

## **BU508D**



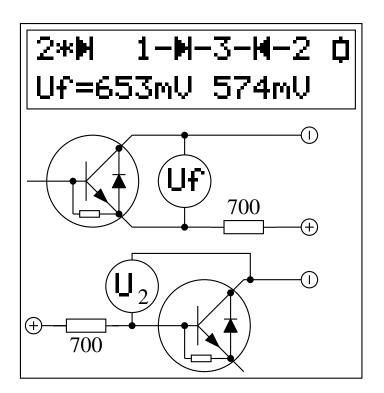


Abbildung 1.5. NPN-Transistor mit Diode und Widerstand

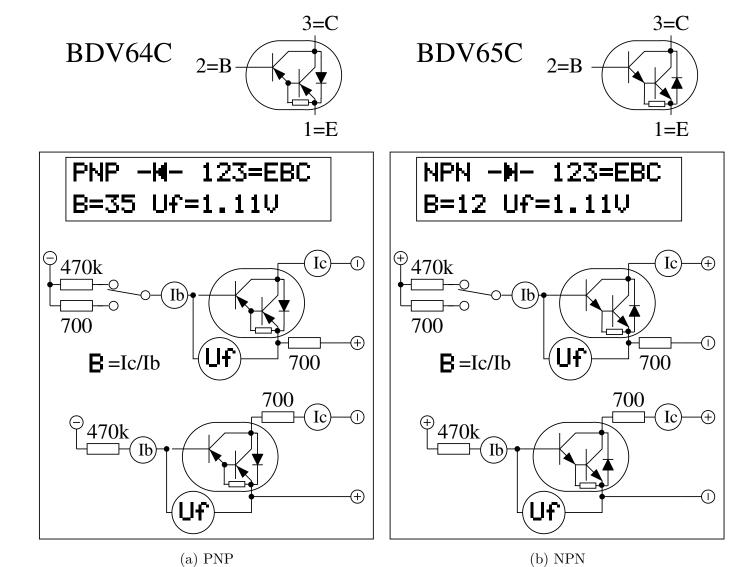


Abbildung 1.6. Silizium Darlington-Transistoren

#### Kapitel 2

## Beschreibung der MOSFET-Messungen

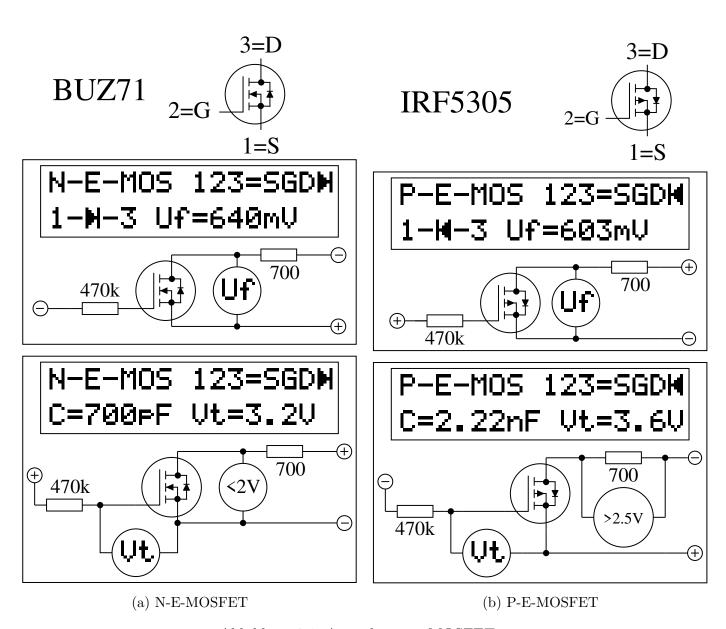
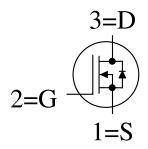
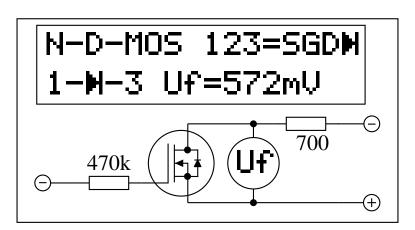


Abbildung 2.1. Anreicherungs-MOSFETs

#### **BSS169**





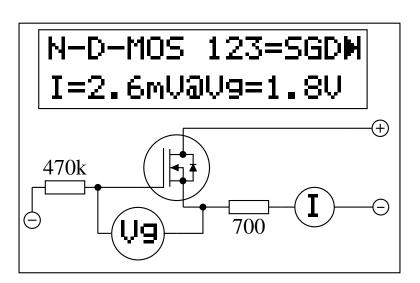
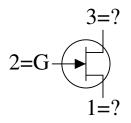
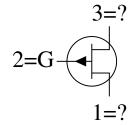


Abbildung 2.2. N-D-MOSFET

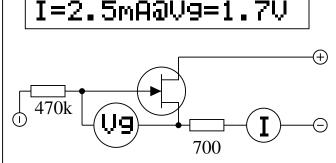




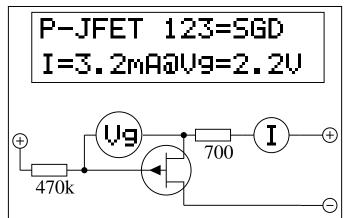
J175



N-JFET 123=DGS I=2.5mA@V9=1.7V



(a) N-JFET



(b) P-JFET

Abbildung 2.3. JFETs

#### Literaturverzeichnis

- [1] Markus Frejek AVR-Transistortester,. Embedded Projects Journal, 11. Ausgabe, 2011
- [2] Atmel Corporation 8-bit AVR with 8KBytes In-System Programmable Flash ATmega8(L),. Manual, 2486Z-AVR-02/11, 2011
- [3] Atmel Corporation 8-bit AVR with 4/8/16/32KBytes In-System Programmable Flash ATmega48 ATmega328, Manual, 8271D-AVR-05/11, 2011
- [4] http://en.wikibooks.org/wiki/LaTeX LaTeX documentation,. Guide to the LaTeX markup language, 2012
- [5] Wikipedia http://de.wikipedia.org/wiki/Equivalent\_Series\_Resistance Erläuterung zum ESR. Normung und Ersatzschaltbild eines Kondensators, 2012
- [6] http://www.xfig.org/userman Xfig documentation,. Documentation of the interactive drawing tool xfig, 2009
- [7] http://docs.gimp.org/2.6/de gimp documentation. Documentation of the GNU Image Manipolation Program, 2010
- [8] http://www.mikrocontroller.net/articles/AVR-Transistortester Online Dokumentation des Transistortester, Online Article, 2009-2011
- [9] http://www.mikrocontroller.net/articles/AVRDUDE Online Dokumentation des avrdude programmer interface, Online Article, 2004-2011
- [10] http://www.mikrocontroller.net/topic/131804 Thread von Markus F., Forum thread, 2009
- [11] http://www.mikrocontroller.net/articles/AVR\_Transistortester Kurze Eigenschaftenbeschreibung des TransistorTester von Karl-Heinz K., Online Article, 2012
- [12] http://www.mikrocontroller.net/topic/248078 Thread von Karl-Heinz K., Thread und Software Versionen, 2012