Kennlinienschreiber

Kennlinien von elektrischen Bauelementen

EM - 105

Elektromagnetismus

☐ Folie ☐ Dia ☐ Film ☐ Video ☐ PC-Programm ☐ Sonstiges Anz. Blätter: 1 Datum: 12.11.98

Karte nur zur Benutzung in den Räumen der Universität Ulm, Vorlesungssammlung Physik Bearbeiter: *Dollhopf W.*

Stichworte: Kennlinienschreiber

Zweck: Schnelle Darstellung der Kennlinien von Widerständen, Kondensatoren, Dioden usw.

Zubehör: Oszilloskop Hameg 1507 {63-2}

Isolator zum Einstecken der Bauteile {62-4}

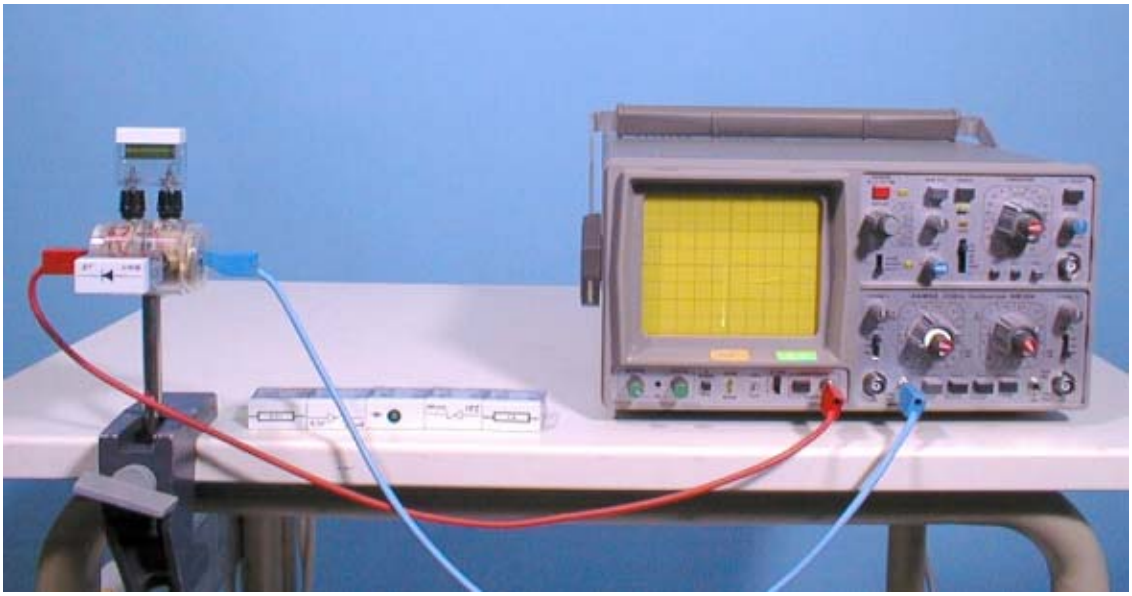
Diverse elektronische Bauelemente:

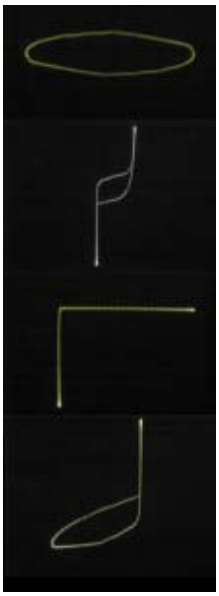
100 Ω, 1 kΩ, Diode, 2 verschiedene Zenerdioden, Kondensator 2,2 µF {69A-12}

Aufbau: Anschluß an die Buchsen „Masse“ und „Component Tester“. Taste „Component Tester“ drücken.

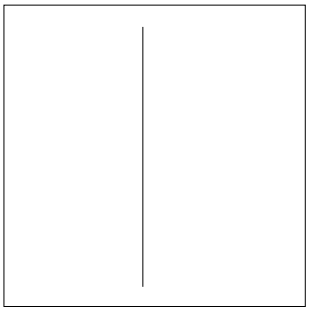
Durchführung: Interessant sind einzelne Bauteile und Kombinationen davon. Beispiele siehe Rückseite der Karte.

Bild:

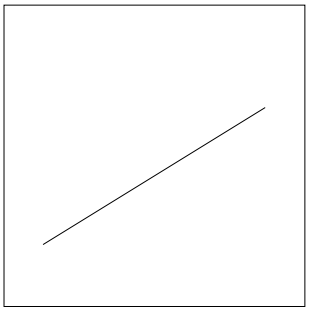




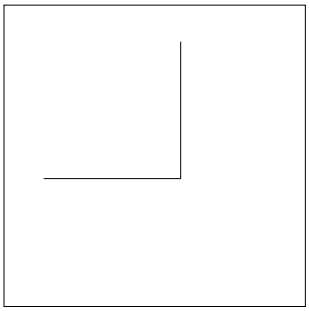
Bauteile einzeln



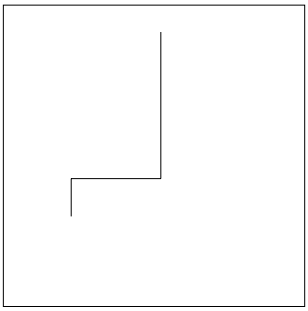
Kurzschluß



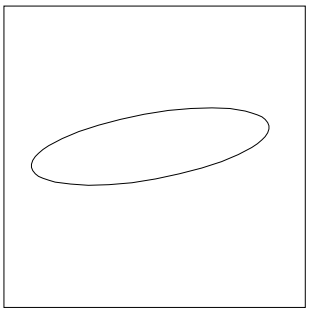
Widerstand 500 Ohm



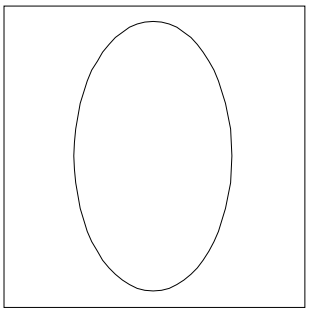
Strecke A-B



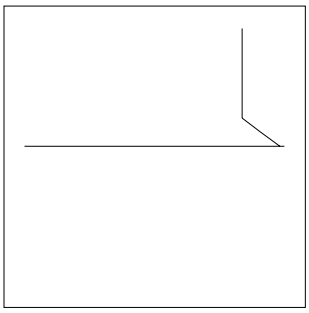
Strecke B-E



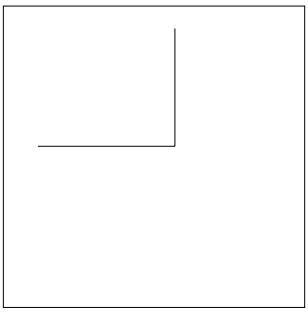
Netztrafo primär



Kondensator 33 µF



Strecke E-C

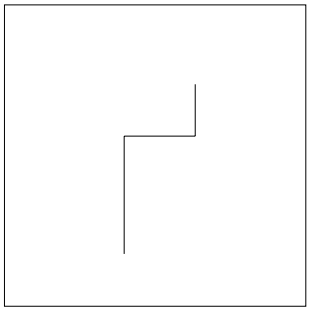


FET

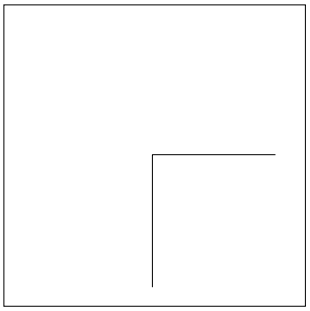
Transistoren einzeln

oben: Testbilder Dioden einzeln

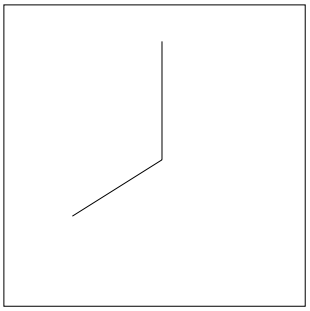
unten: Testbilder Halbleiter in der Schaltung



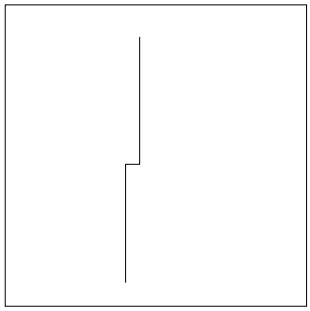
Zenerdiode unter 8 V



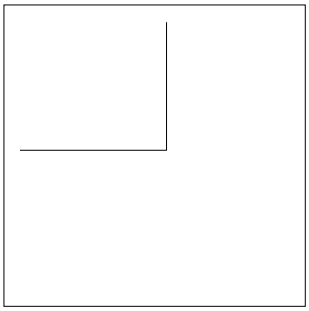
Z-Diode über 12 V



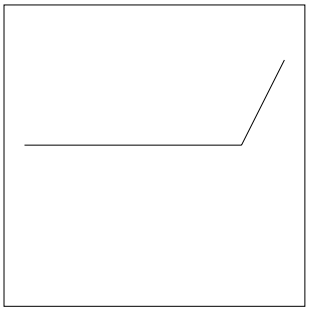
Diode parallel 680 Ohm



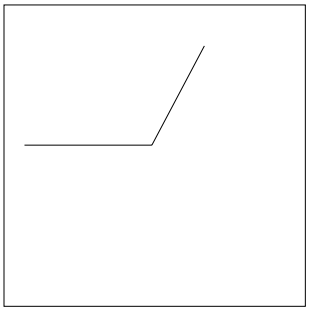
2 Dioden antiparallel



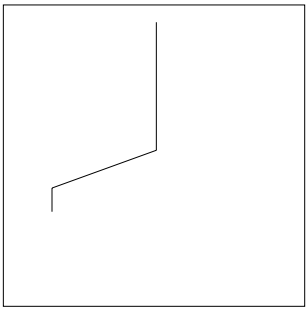
Siliziumdiode



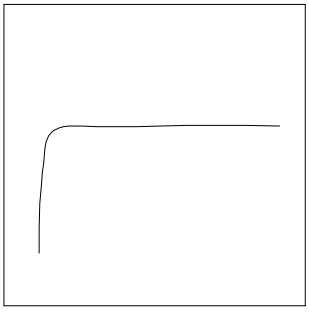
Germaniumdiode



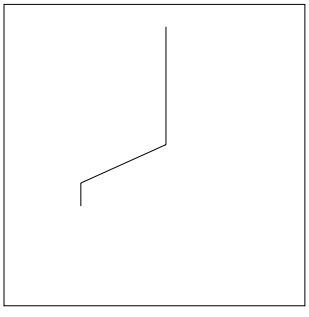
Diode in Reihe mit 51 Ohm



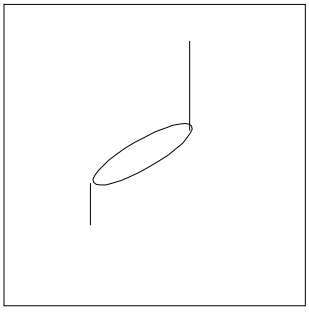
B-E parallel mit 680 Ohm



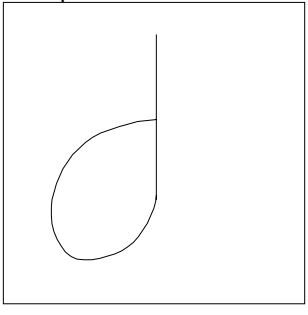
Gleichrichter



Thyristor G und A verb.



Strecke B-E mit 1 µF, 680 Ohm



Si-Diode mit 10 µF