

## DATA PERCOBAAN I

### A. Karakteristik Dioda (1)

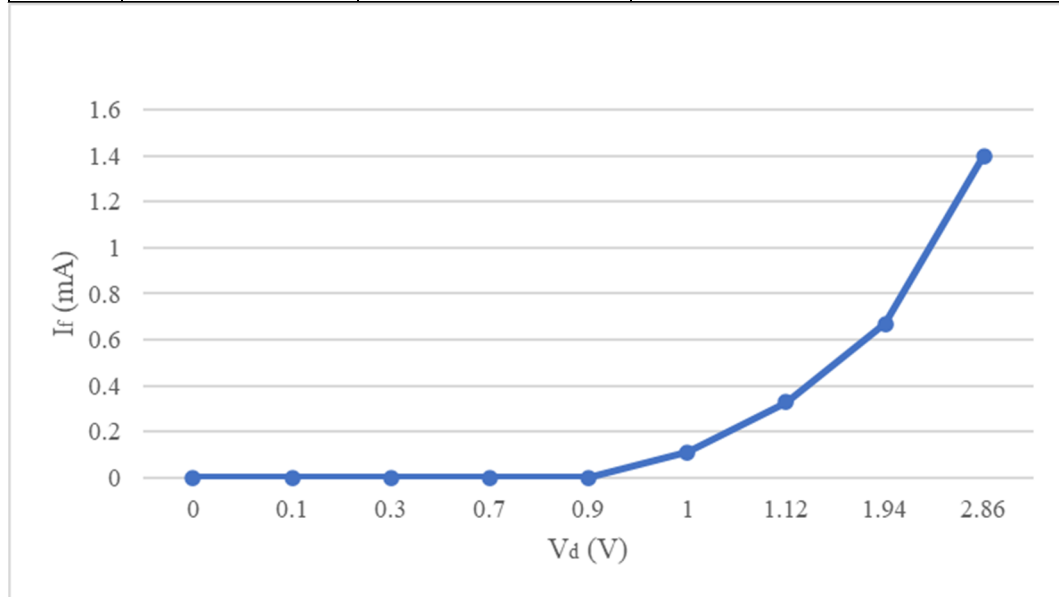
Tabel 1.1

Rangkaian	Arus ( mA )
Forward Bias	2.00
Reverse Bias	0

### B. Karakteristik Dioda (2)

Tabel 1.2

$V_s$ (V)	$V_r$ (V)	$V_d = V_s - V_r$ (V)	$I_f = V_r \times 10$ (mA)
0	0	0	0
0.1	0	0.1	0
0.3	0	0.3	0
0.7	0	0.7	0
0.9	0	0.9	0
1.1	0.01	1.0	0.11
1.5	0.03	1.12	0.33
2.0	0.06	1.94	0.67
3.0	0.14	2.86	1.40



Gambar 1.1

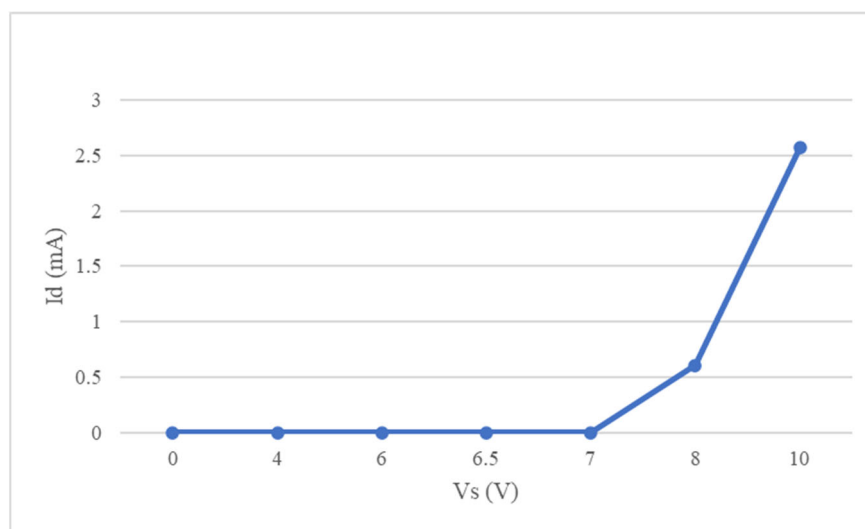
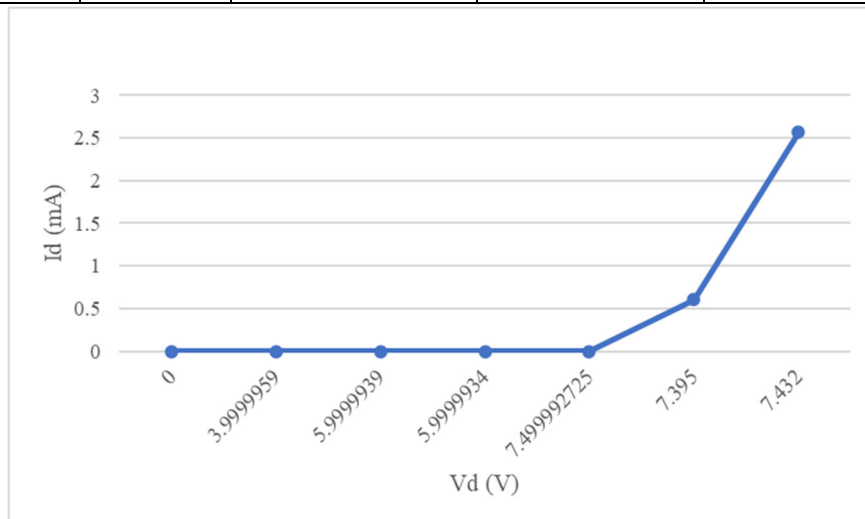
### C. Penyearah Setengah Gelombang (Halfwave Rectifier)

$V_R = 5.159$  volt (Langkah 2)  $V_R = 9.173$  volt (Langkah 5)

### D. Dioda Zener

Tabel 1.3

$V_s$ (V)	$V_r$ (V)	$V_d = V_s - V_r$ (V)	$I_d = V_r$ (mA)	$P_d = V_d \times I_d$ (mW)
0	0	0	0	0
4	$4.1 \times 10^{-6}$	3.9999959	$4.1 \times 10^{-6}$	$1.64 \times 10^{-5}$
6	$6.1 \times 10^{-6}$	5.9999939	$6.1 \times 10^{-6}$	$3.66 \times 10^{-5}$
6.5	$6.6 \times 10^{-6}$	5.9999934	$6.6 \times 10^{-6}$	$3.96 \times 10^{-5}$
7	$7.275 \times 10^{-6}$	7.499992725	$7.275 \times 10^{-6}$	$5.46 \times 10^{-5}$
8	0.605	7.395	0.605	4.474
10	2.568	7.432	2.568	19



Gambar 1.2 (a.  $V_d$  &  $I_d$ , b.  $V_d$  &  $I_s$ )