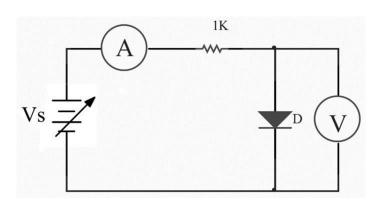
گزارش کار آزمایش ۸ دستورکار جدید

آشنایی با مشخصات انواع دیود های نیمه هادی و مدار های کاربردی دیودی

علی نظری ۹۶۳۱۰۷۵ --- سیدامین موسوی ۹۵۲۵۰۵۶ گروه ۶ یکشنبه ها ساعت ۱۶:۳۰ الی ۱۹

قسمت اول:



Vs	0	0.2	0.4	0.6	1	3	5	7	9	10	15
I _D (mA)	0	0	0.012	0.118	0.431	2.23	4.42	6.5	8.58	9.58	14.69
V _D (mV)	9	200	395	479	539	608	638	656	668	672	691

قسمت دوم:

مدار Clamp

بخش اول:



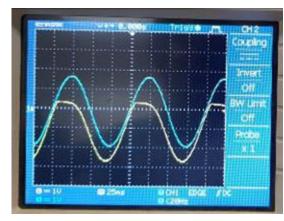
$$C = 1 \, \mu F$$

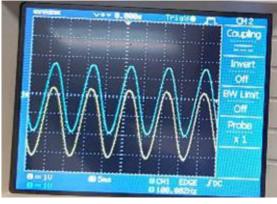
$$R = 100 k\Omega$$

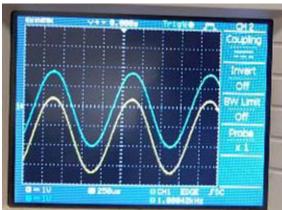
$$f_1 = 10 \; Hz$$

$$f_2 = 100 \, Hz$$

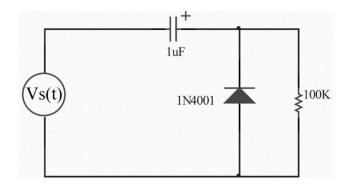
$$f_3 = 1000 \, Hz$$







بخش دوم:

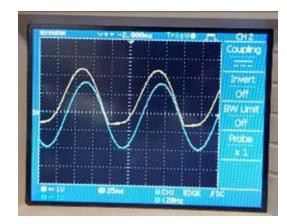


$$V_{p-p} = 4 V$$

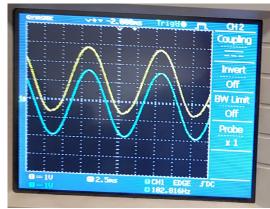
$$C = 1 \mu F$$

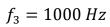
$$R = 100 k\Omega$$

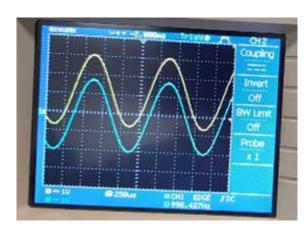
$$f_1 = 10 \; Hz$$





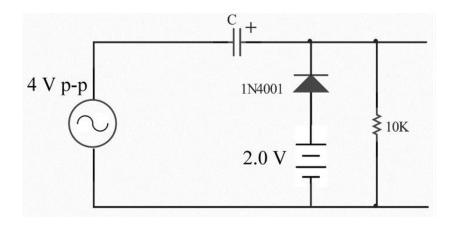


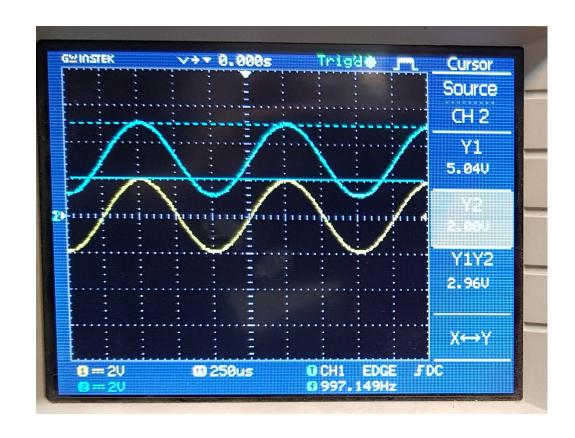




بخش سوم:

$$f = 1000 Hz$$
$$V_{p-p} = 4 V$$

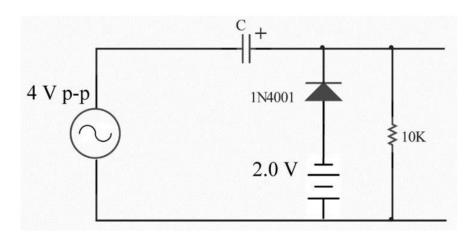


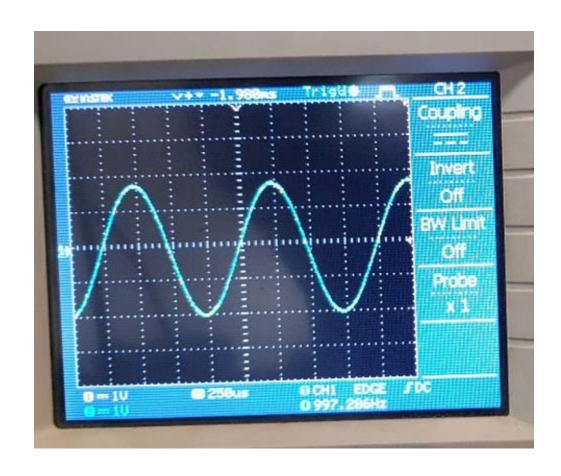


بخش چهارم:

$$f = 1000 Hz$$
$$V_{p-p} = 4 V$$

در این حالت هر دو نمودار روی هم می افتند.





قسمت سوم:

مدار های برش

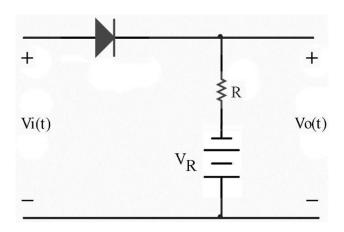
بخش اول:

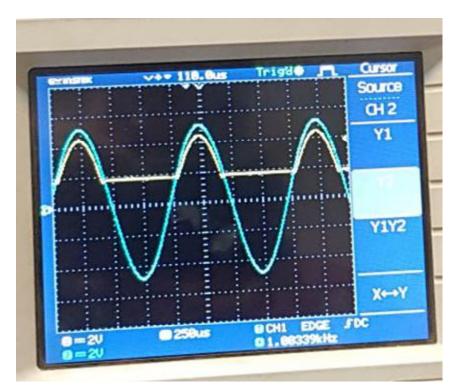
$$f = 1000 Hz$$

$$V_{p-p} = 10 V$$

$$V_{R} = 2 V$$

$$R = 1 k\Omega$$

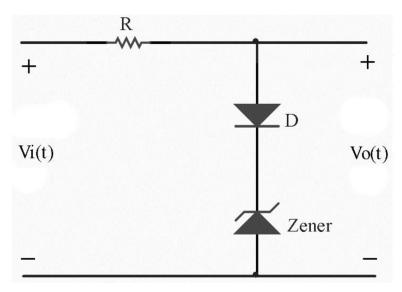


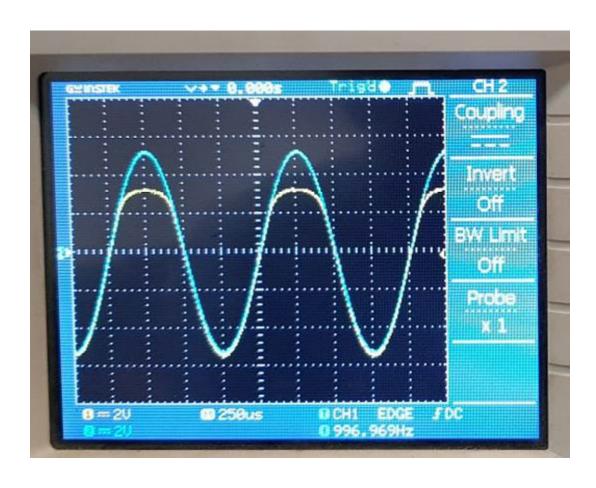


$$f = 1000 Hz$$

$$V_{p-p} = 10 V$$

$$R = 1 k\Omega$$





بخش سوم:

$$f = 1000 Hz$$

$$V_{p-p} = 10 V$$

$$R = 1 k\Omega$$

