

• •

0 0 ,

13

1986



I.

R 0,5

[I].

I.

( 0,5) - 100-3500 ,

- R = 25-50 ,

- U . . = 5 (

R = 0,5 ),

-  $K_v$  1000,

- 9 ,

- 6,5 \*\* ,

- 7 .

\*

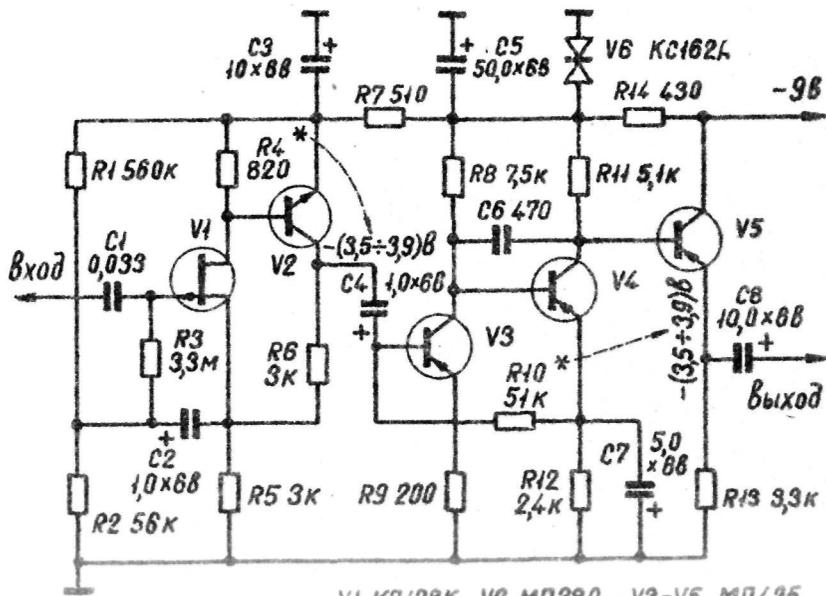
( *Rana temporaria* ),

(*Bufo bufo*),

(*Tadarodes pacificus*),

( *Hemigrapsus sanguineus* ) .

\*\*



V1 КП103К V2 МП38А V3-V5 МП42Б

Рис.1

V2

V5.

2000

100

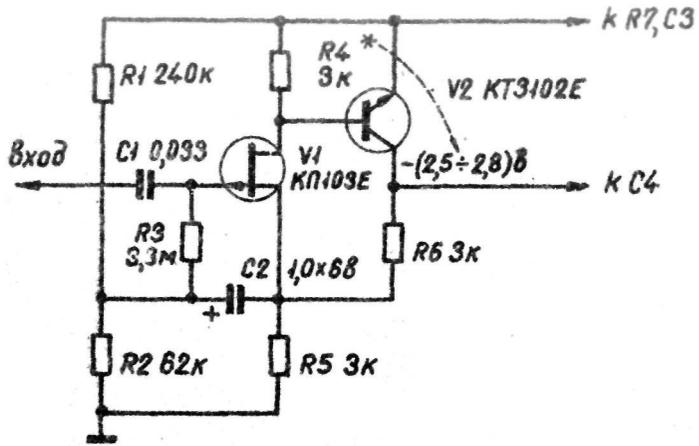
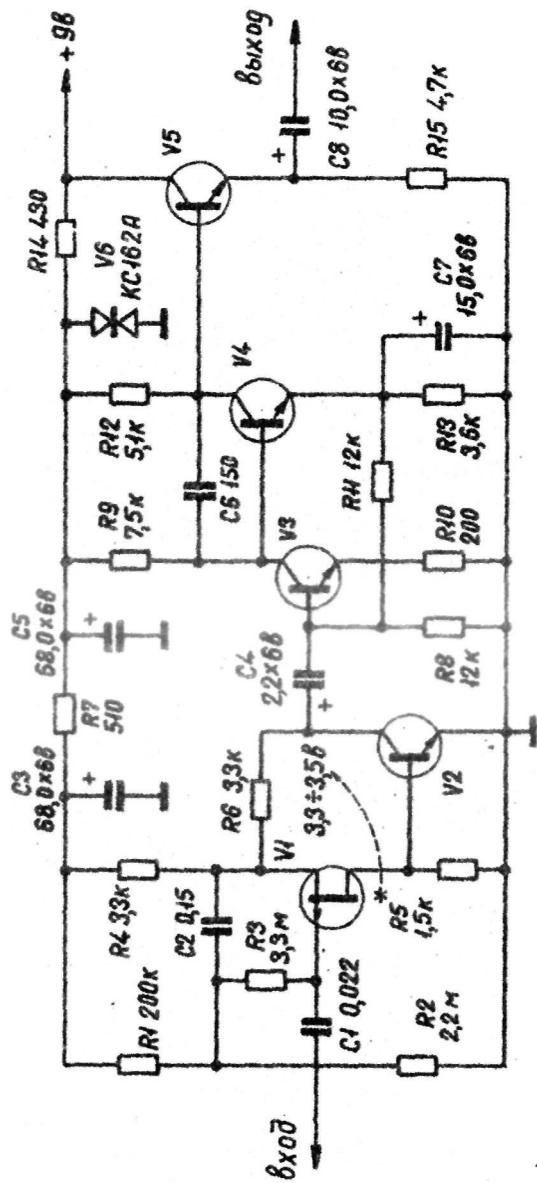


Рис. 2

, U . 10-15% . 3 , ( ; , 150-4000 , 35 , 1600 . - , 2 . ; " " ( . 4 ) - . 4 . ( ) . - . ( " " ) . 5 . V5 V6 . 4 R1 - , 2-3 . (S1 - 2) . R17 - ( ) , R17 R8 R19 - " " , R19 - ; R8 V V4 I .



V1 КП103К V2-V5 КТ315Г

Рис. 3

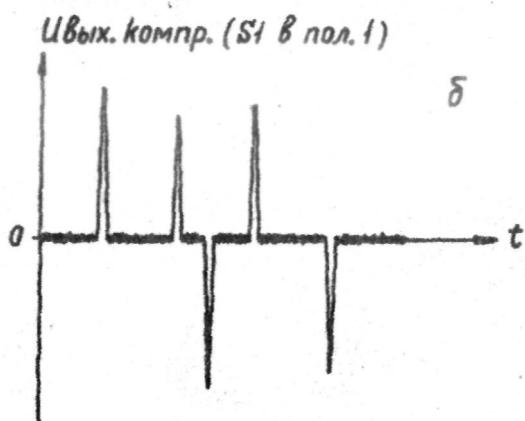
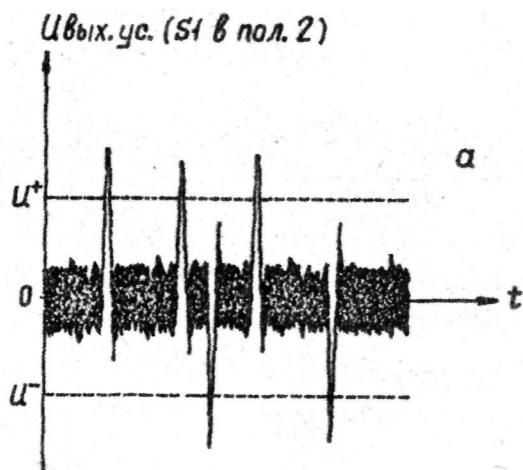
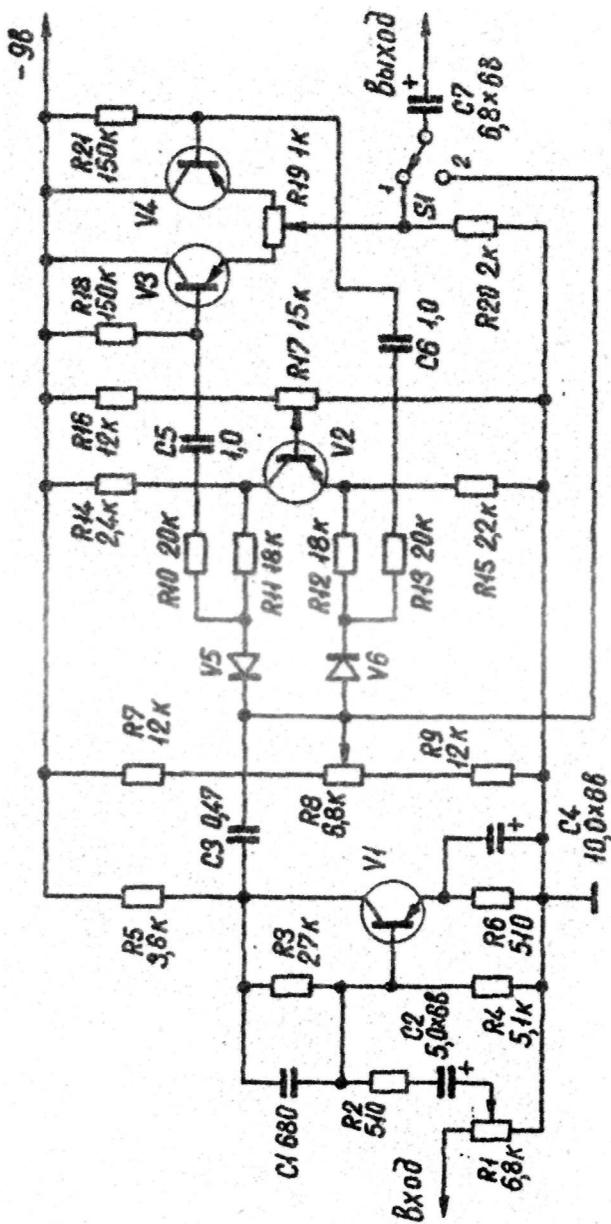


Рис. 4



V1-V4 МП42Б V5, V6 Д18

Рис. 5

-98

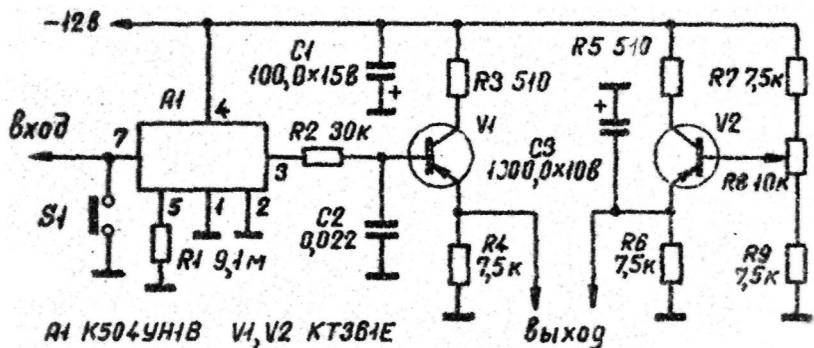
3.

( ) . -  
 . 6. -  
 0-280 . ~20 / . 130. , -  
 ~7 ( 68 , -  
 ). - 10  
 , - 200 . -  
 -4,5 .,  
 -9 ., 1,7 . ( V1  
 V2 . ( )  
 V2. R8  
 S1. -  
 ( V2)

4.

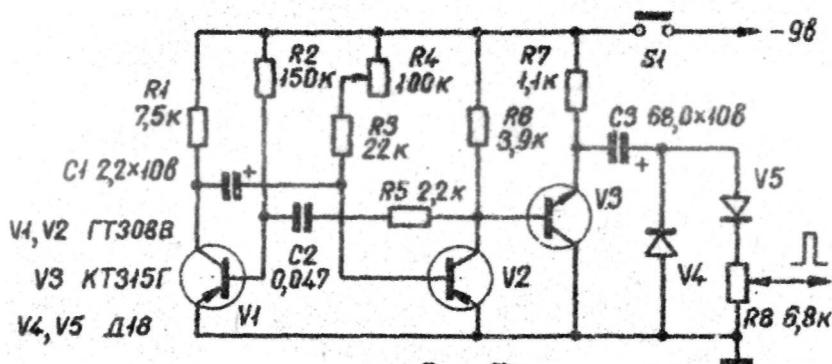
[2,3].

. 7 , -  
 3-3,5 .  
 - 25-100 - R4.  
 0 7 . -  
 R8. , -  
 3-4 ;  
 (" " , 7 -0,1 .).  
 . 8, -  
 . -  
 ,  
 .



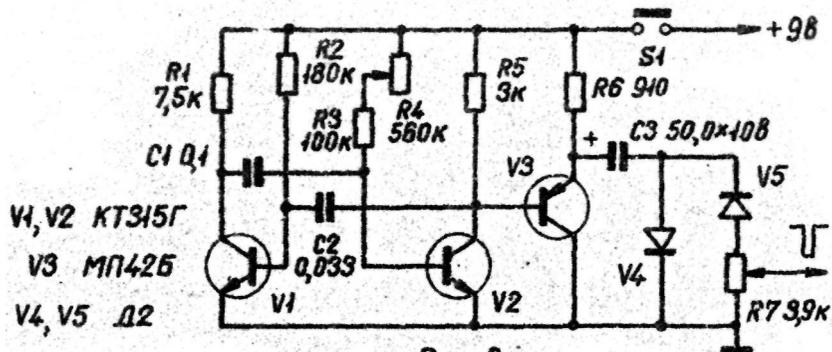
A1 К504УН1В V1, V2 КТ361Е

Рис. 6



V1, V2 ГТ308В  
V3 КТ315Г  
V4, V5 Д18

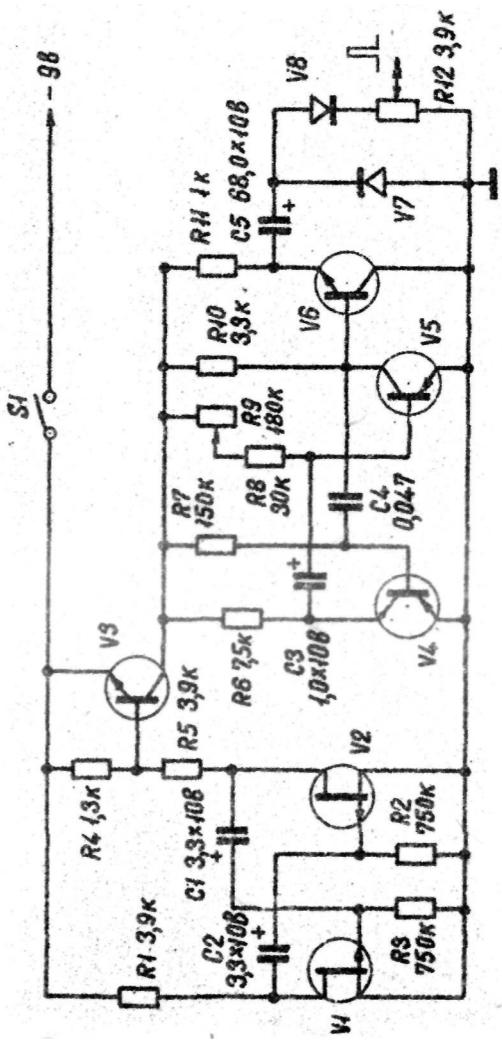
Рис. 7



V1, V2 КТ315Г  
V3 МП42Б  
V4, V5 Д2

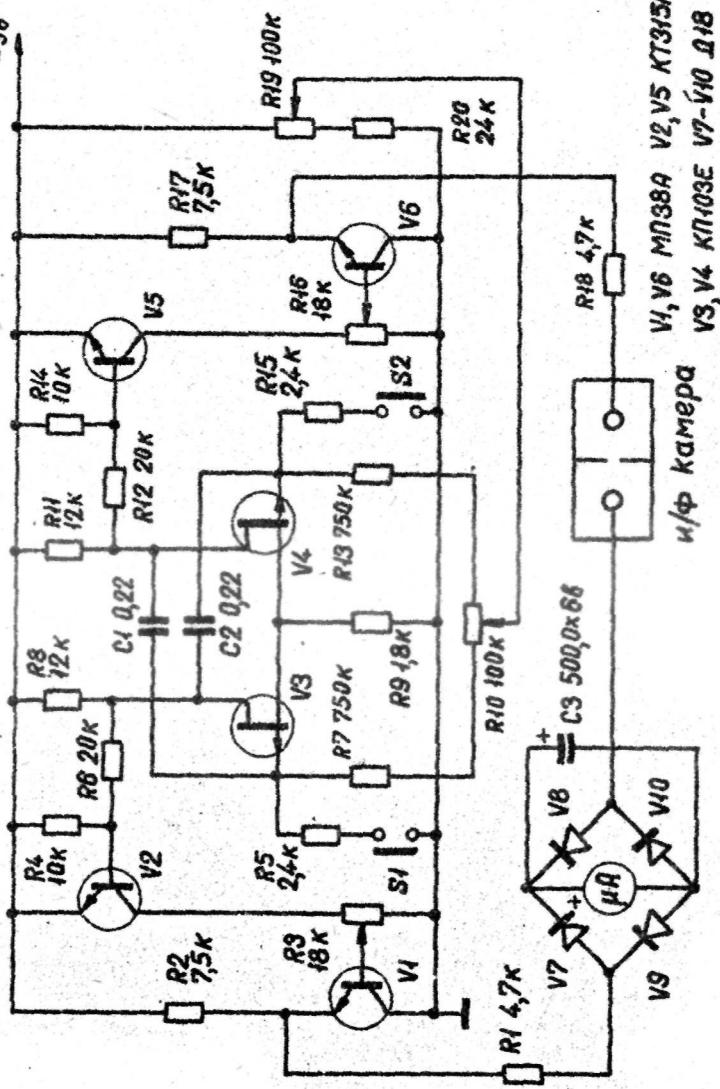
Рис. 8

. 9  
 " - " "  
 a a ,  
 - 3 . -  
 " " - 15-90 -  
 R9, - 0-8 . - R12. " " -  
 4 - C1·R3,  
 4 - C2·R2.  
 : -  
 - 2,5 , - 7,5 .  
 5. ( / )  
 ++  
 ,  
 , , , , ,  
 [4,5].  
 /  
 . 10.  
 - 100 .  
 .  
 S1  
 S2, R16  
 R3 .  
 1,5 7 , R19 .  
 ( RI0 . -9 . , -  
 ) -4,5 . 1,5-3  
 .  
 . 11,  
 ( 1 )



$V_1, V_2$  КП103К  $V_3, V_5, V_6$  МП38А  $V_4, V_5$  ГТ308В  $V_7, V_8$  Д18

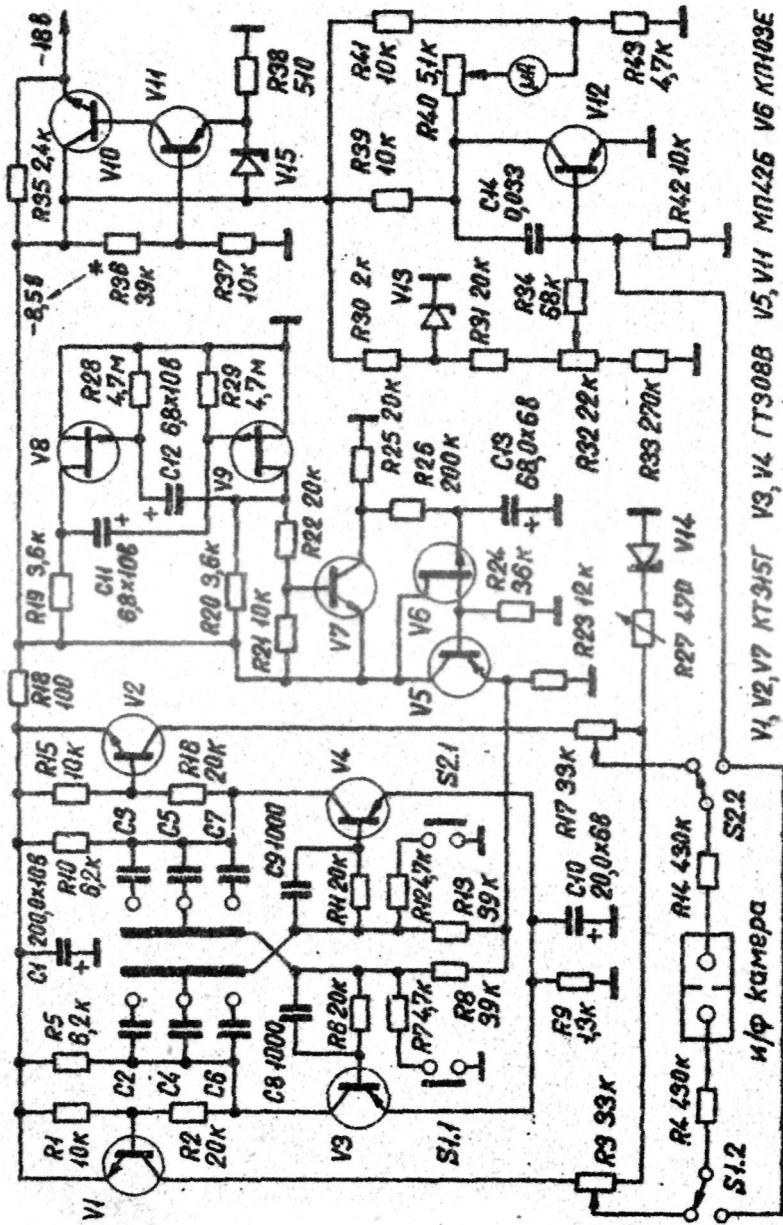
Рис. 9



V1, V6 МП38А V2, V5 КТ315Г  
V3, V4 КТ103Е V7-V10 Д18

и/ф камера

Рис. 10



и/ф камера  
 S1.2 S2.2  
 R4 430k  
 S1.1 S2.1  
 R9 33k C10 20,0x68 R17 39k R14 430k  
 R27 470 V14  
 R23 12k R24 36k R25 20k R26 200k R29 4,7M R30 2F R31 20k R32 22k R33 270k R34 58k R35 2,4k R36 39k R37 10k R38 510 R39 40k R40 5,1k R41 10k R42 10k R43 4,7k R44 430k  
 V1, V2, V7 КТ-35Г V3, V4 ГТ-308В V5, V11 МП-225 V6 КМ-103Е  
 V8, V9 КМ-103К V10 МП-38А V12 КТ-349В

Рис. 11

V1, V15 Д806 V14 Д813

. : 8-40 (C2=C3=  
 =1,0 ), 50-280 ( 4= 5=0.15 ) 360-2100 (C6=C7=0,022  
 ). 60-65 . -  
 R3 -  
 S2. R17  
 S1.

( 2003 100 )  
 R27, R32 R40,  
 1  
 .  
 S1.2 S2.2  
 (R4 + R14 +  
 ). -18 .,  
 -9 . - 11 .

6.  
 ,  
 ( ) . -  
 , -  
 . , ,  
 , ,  
 , . -  
 , . 12,  
 -  
 , "1"  
 -  
 - ;  
 3 . -  
 : +9 . ( +6 . ) 1,5 . ( )  
 1,1 . ) . 1,5 . ( )  
 373 343)  
 - 120 . +9 . ( " " , -  
 7 -0,1

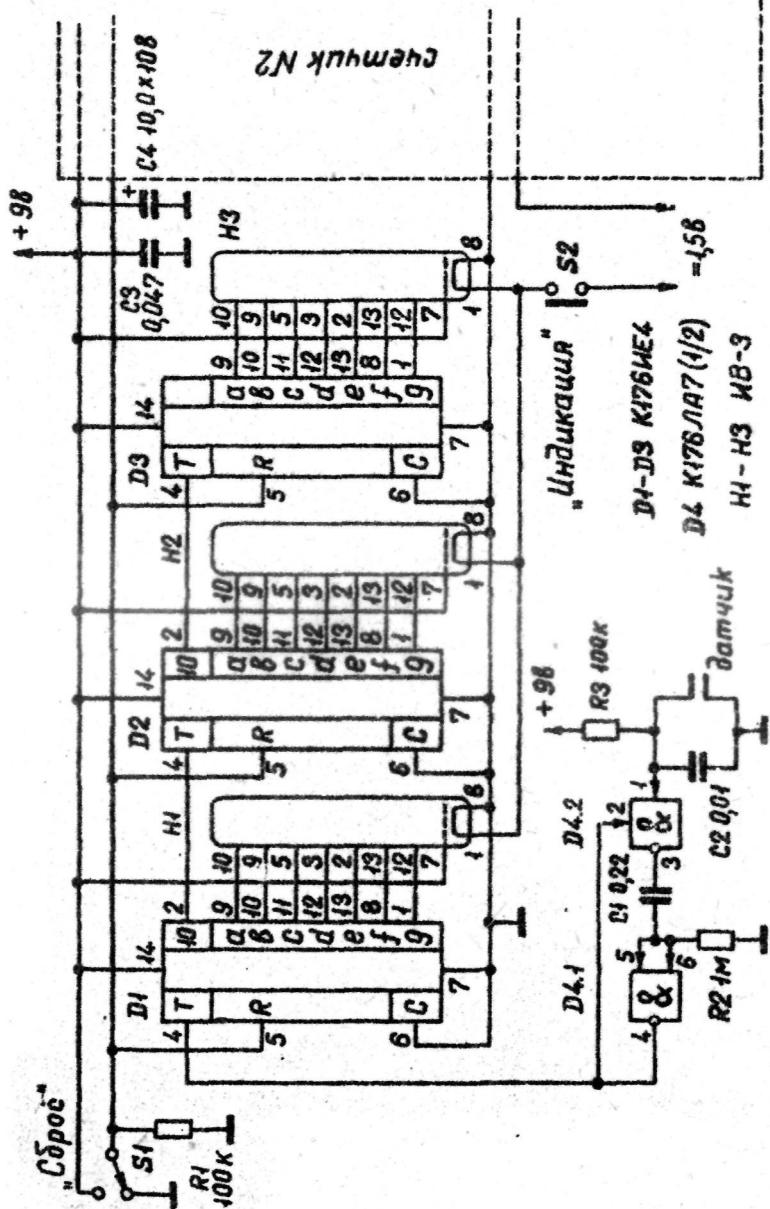


Рис. 12

3336 )  
 17 4 - -  
 ( - -  
 ) 3-4 .  
 120x77 . -  
 , -  
 . 13 -  
 ,  
 , 2.720.006 ( ) . -  
 , -20 . , -17 .  
 , - 2,5 .  
 7.  
 )  
 - .  
 , -  
 . 14. 40-10000 . -  
 - 200 , -  
 ( R1 ) 10 . -  
 2-3 , 35-40 . -  
 ( -  
 ) -5 .  
 ) -  
 . 15  
 , 12- -  
 ,  
 - 2 -2. ,  
 (6 . ),  
 МК- 2 305 -2 0,35 ( :  
 220/6 ,  
 (220/6) , -

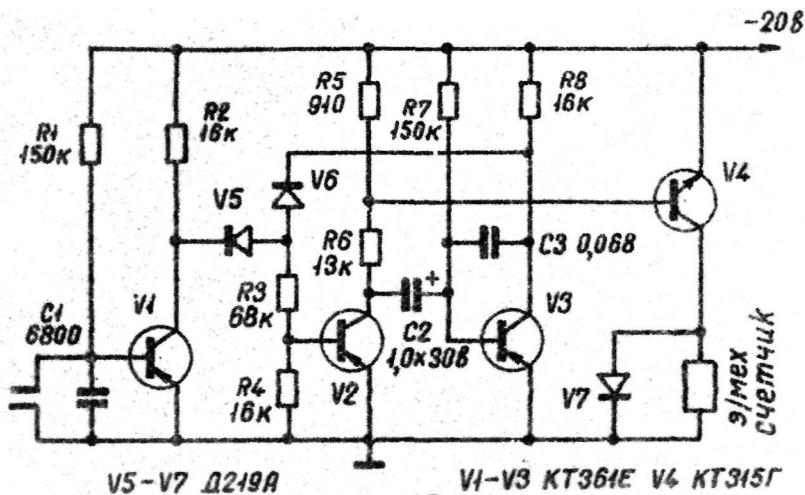


Рис. 13

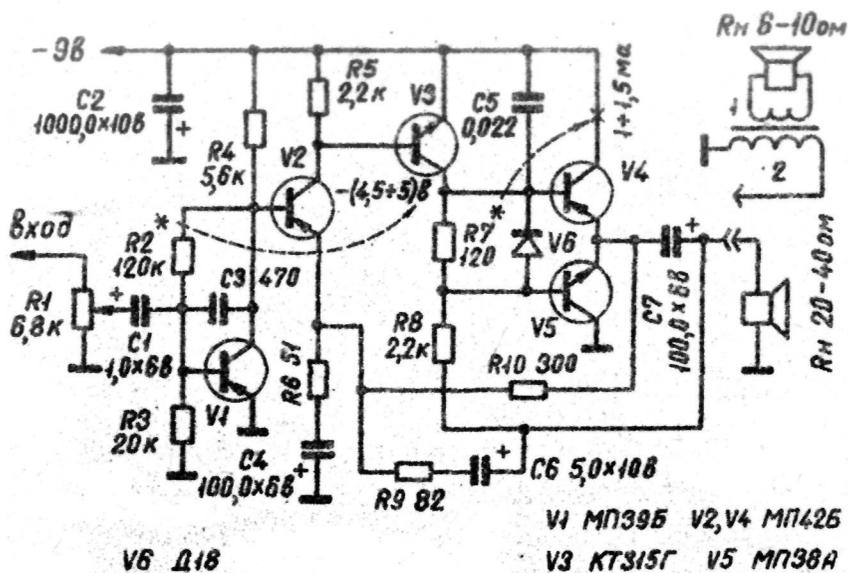


Рис. 14

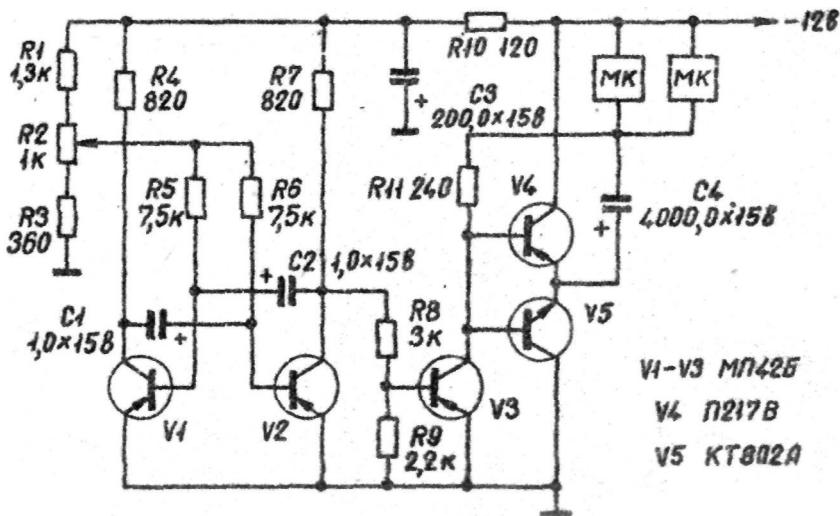


Рис. 15

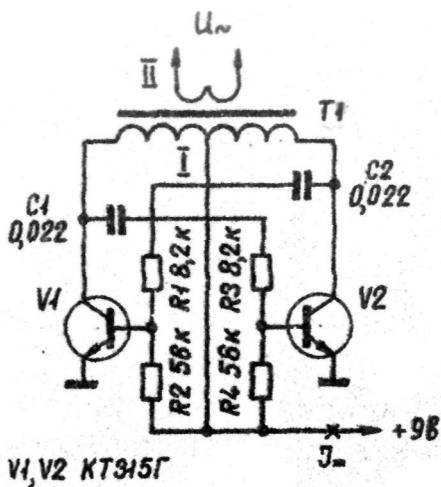


Рис. 16

Таблица 1

$\Gamma$	$U_{\sim}$ (В)	$J_{\sim}$ (мА)	$\eta$ (%)
1	0,83	9	53
2	0,81	13	70
3	0,79	16	81
4	0,78	20	84
5	0,77	24	86
6	0,76	27	89

220 .).

6,3 .

V5

220/

-

V4

-

- 2

- -2,

- 2

, 0,3 .

)

( K176, K561 .)

9-

-

0,8-1 .

40-50

. 16

3000 16 10 4,5 .

I

2x180

-2 0,12,

II -

16

-2 0,44.

U.,

I=

n -

( )

-3.

3000

8.

0,125  
 R1 ( . 5), R8 ( . 7), R7 ( . 8),  
 R12 ( . 9) R1 ( . 14),

9.

1. . . , . . , . .  
 . . : , 1980. 158 .

2. . .

. - , 1953, .449-451.

3. . . , . . , . .  
 . - . : -

. . : , 1977, .3-112.

4. . . , . .  
 Hemigrapsus sangu-  
 ineus. - . : -

CC P, 1980, .62-74.

5. Mulloney . Microelectrode injection, axonal iontophoresis, and structure of neurons. - In: Intracellular staining in neurobiology. Berlin: Springer-Verlag, 1973, p. 90-113.

1.	.....	3
		-
2.	.....	3
3.	.....	6
4.	.....	10
5.	..... ( / ) .....	12
6.	.....	16
7.	..... :	18
	) .....	18
	) .....	21
8.	.....	21
9.	.....	23

..

,

27.05.86 . 07236.  
 .- . . 1,16. . . . 0,74. 150 . 130.  
 7 .



-  
 , 50