

(19) (KR)
(12) (B1)

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(21) 10 - 1994 - 0021787 (65) 1995 - 0009882
(22) 1994 08 31 (43) 1995 04 26

(30) 08/115,609 1993 09 03 (US)
(73) , 10330
46290 - 1024
(72) 11408
, , ,
, , , 7526
(74)

:

(54)

(100) (VS) (201) .
, .

1

1 , .

2 (cascode) 2 .

3 가 3 .

4 3 2 .

5 3 3 .

< >

Q1 Q4; Q1' Q5'; Q4" :

R2; R2a'; R2b'; R2c' :

20:

22:

60:

70" :

100: (CRT)

200; 200'; 200" :

201: /

(CRT) .

가 ,

(sweep) ,

(變成器) .

(走査) , ()

2 3 가 .

(電位差計) ,

. CRT

CRT .

(R2) (200a) (Q3) (R4) (Q3)
(VOUT)가 0~5 V (R2)
(R4) , 240 V 680 V 460 V , CRT
(VS) (VS) (VOUT)가 ,
(R3) 0 , (VOUT)가 0 5 V ,
(VS) 240 680 V (VOUT)가 ,
(VS) CRT .

, (VOUT)가 (VS)
, CRT 10% CRT가 10% (200)
, (VOUT) (VS)
(VOUT) (VBUS) , (VS)
D/A (201) 가 .

2 , 1 (200)
(200') . 1 2 , (') 2
.

2 (200') , (Q5', Q4') (Q3') (cascode)
(Q3', Q5') (R8c'), (Q5', Q4')
(R8b') (200a') (Q4') (R8a') 1 (R8)
(VS') 가 , 2 (R2a', R2b', R2c')
1 (R2) (200') . 2 (R2a', R2b', R
2c') (Q4' Q5') , (200') 1
(VS) (VS') .

3 (200") . 3 , DC
(FOCUS) . 1 3
, 3 (") .

3 (200") , (Darlington) (Q3a" ,
Q3b" , Q2b" , Q2a") 가 (D1) (70")
. (D1) 가 15 mA (Q2b")
, 가 .

3 가 (70")가 3 , 4 5 . 3 5
. 3 1 , (光) (Q4") (R1b")
(Q4") (自己) - (R1c") 가
(Q4")

4 2 , (60) (Q4") -
2 (Q4") 가 . 5 3
(LDR) (R1a") (R1b) . (R1a") 90 M 20 k
1700 V .

(57)

1.

(VS')

(VS') (VOUT") ;

1 (31 KV) ;

(VOUT") 1 (31 KV) (VS) (200)

,

,

(Q3') (VS') 1 (Q5')

(VS') 2 (cascode)

(Q3' , Q5') , (R2a' , R2b' , R2c') (Q

3') (

Q5')

(200a') .

2.

1 , 1 (200a') , (Q3')

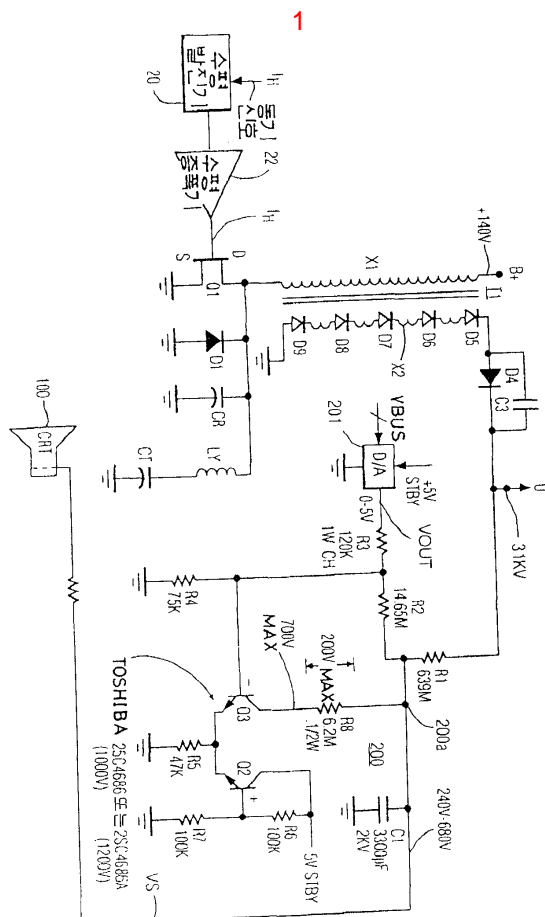
2 (R4' , R2c') (Q5')

(R2c' , R2b') .

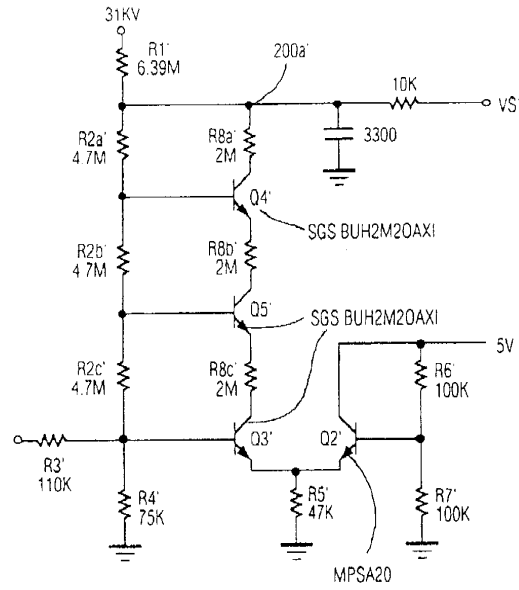
3.

1 , (VS')

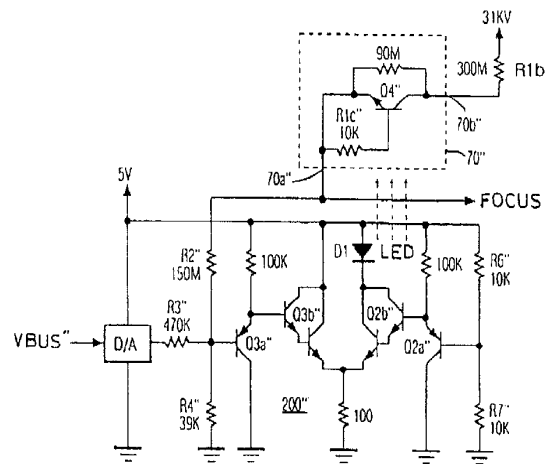
.



2

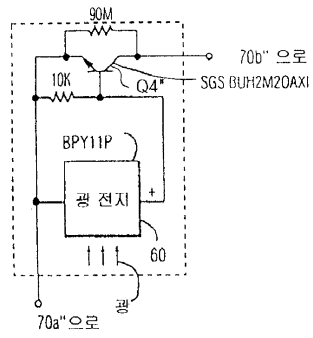


3



Q4''을 제외한 모든 NPN은 MPSA 20이고
모든 PNP는 MPSA 55

4



5

