

# TRIODE HEXODE

# ECH35

Triode hexode for use as frequency changer in A.C. mains-operated receivers. The hexode section is designed for A.V.C.

## HEATER

$V_h$	6.3	V
$I_h$	0.3	A

## CAPACITANCES

	$c_{gt-g1}$	< 0.3	$\mu\mu F$
Hexode	$c_{g1-k}$	5.0	$\mu\mu F$
	$c_{a-k}$	10.0	$\mu\mu F$
	$c_{a-g1}$	< 0.003	$\mu\mu F$
Triode	$c_{g-k}$	9.0	$\mu\mu F$
	$c_{a-k}$	3.0	$\mu\mu F$
	$c_{a-g1}$	1.6	$\mu\mu F$

## OPERATING CONDITIONS - HEXODE SECTION

### (a) With fixed screen grid voltage

$V_a$			250	V
$V_{g2+g4}$			100	V
$R_k$			215	ohms
$R_{g3}$			50,000	ohms
$I_{g3}$			200	$\mu A$
$V_{g1}$	-2	-17	-23	V
$I_a$	3	-	-	mA
$I_{g2+g4}$	3	-	-	mA
$g_c$	650	6.5	1.5	$\mu A/V$
$r_a$	1.3	> 5.0	> 6.0	M.ohms

### (b) With screen grid fed by a potentiometer (See diagram overleaf)

$V_a = V_b$			250	V
$R1$			24,000	ohms
$R2$			33,000	ohms
$R_k$			215	ohms
$R_{g3}$			50,000	ohms
$I_{g3}$			200	$\mu A$
$V_{g1}$	-2	-23.5	-31	V
$V_{g2+g4}$	100	-	145	V
$I_a$	3	-	-	mA
$I_{g2+g4}$	3	-	-	mA
$g_c$	650	6.5	1.5	$\mu A/V$
$r_a$	1.3	> 3.0	> 4.0	M.ohms



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### OPERATING CONDITIONS - TRIODE SECTION

$V_b$	100	250	V
$R_a$	-	45,000	ohms
$I_a$ ( $R_{gt} = 50,000$ ohms, $I_{gt} = 200 \mu A$ )	3.3	3.3	mA
$I_a$ ( $V_{gt} = 0$ V)	10	4.5	mA
$g_m$ ( $V_{gt} = 0$ V, $V_{osc} = 0$ V)	2.8	2.2	mA/V
$\mu$ ( $V_{gt} = 0$ V, $V_{osc} = 0$ V)	24	24	

### LIMITING VALUES - HEXODE SECTION

$V_{a(b)}$ max.	550	V
$V_a$ max.	300	V
$w_a$ max.	1.2	W
$V_{g2+g4}$ (b) max	550	V
$V_{g2+g4}$ max. ( $I_a = 4.5$ mA)	125	V
$V_{g2+g4}$ max. ( $I_a = < 0.5$ mA)	200	V
$w_{g2+g4}$ max.	0.6	W
$V_{g1}$ max. ( $I_{g1} = +0.3$ uA)	-1.3	V
$V_{g3}$ max. ( $I_{g3} = +0.3$ uA)	-1.3	V
$I_k$ max.	15	mA
$R_{g1-k}$ max.	3	Mohm
$R_{h-k}$ max.	20,000	ohms
$V_{h-k}$	100	V
$R_{g3-k}$	0.1	Mohm

### LIMITING VALUES - TRIODE SYSTEM

$V_{a(b)}$ max.	550	V
$V_a$ max.	100	V
$w_a$ max.	1.5	W
$V_{gt}$ max. ( $I_{g1} = +0.3 \mu A$ )	-1.3	V
$R_{gt}$ max.	100,000	ohms

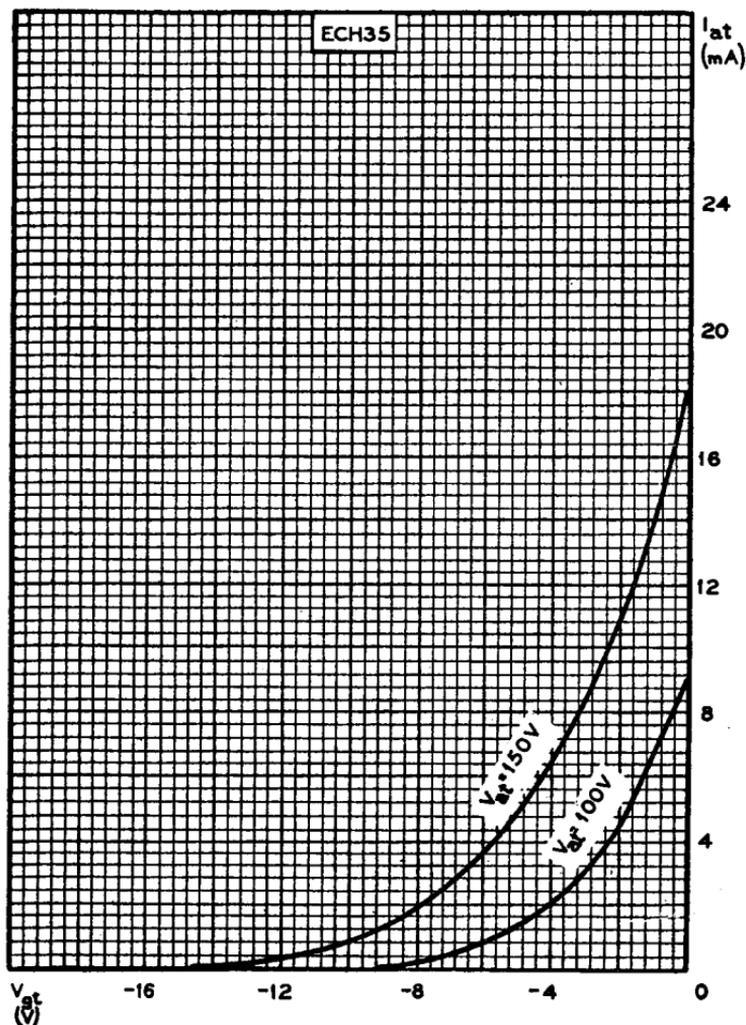




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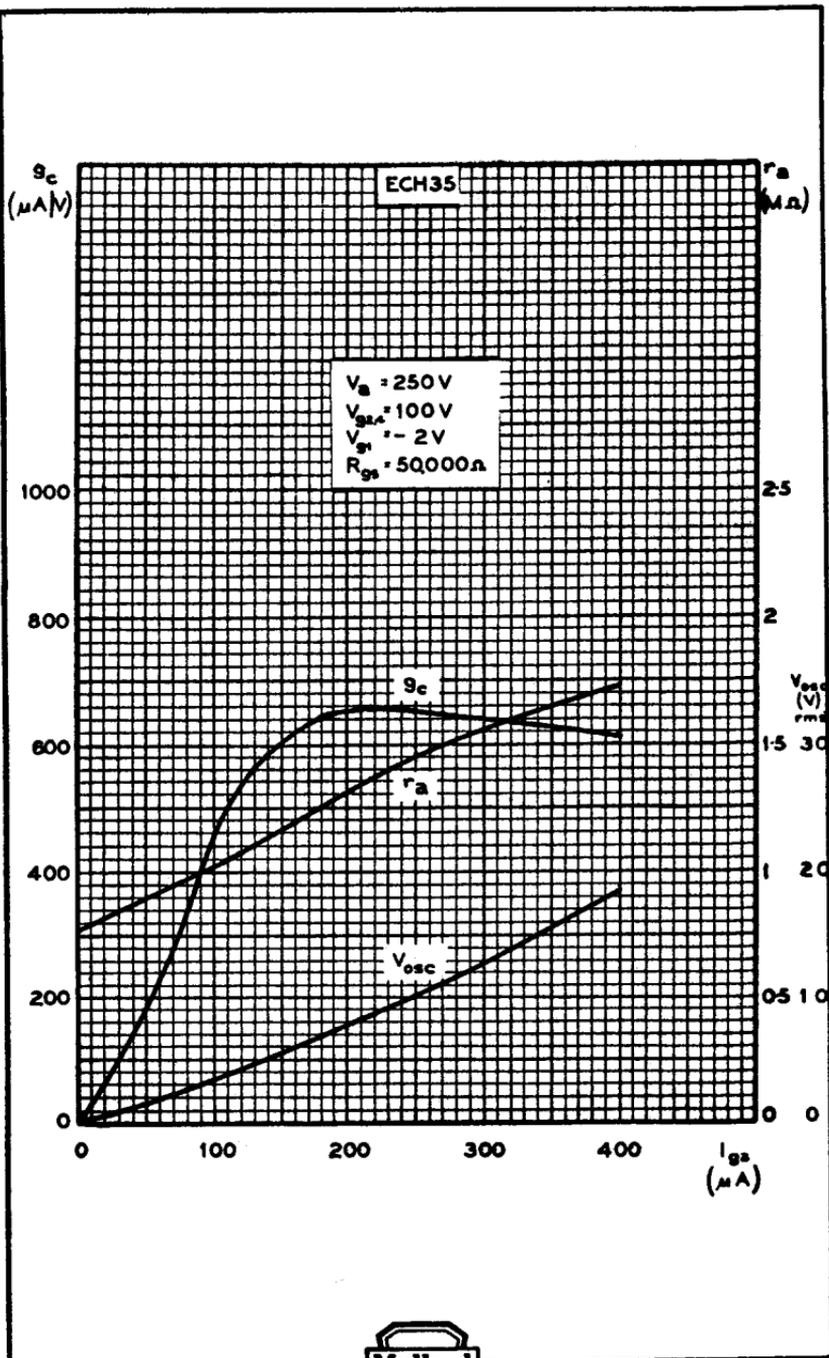
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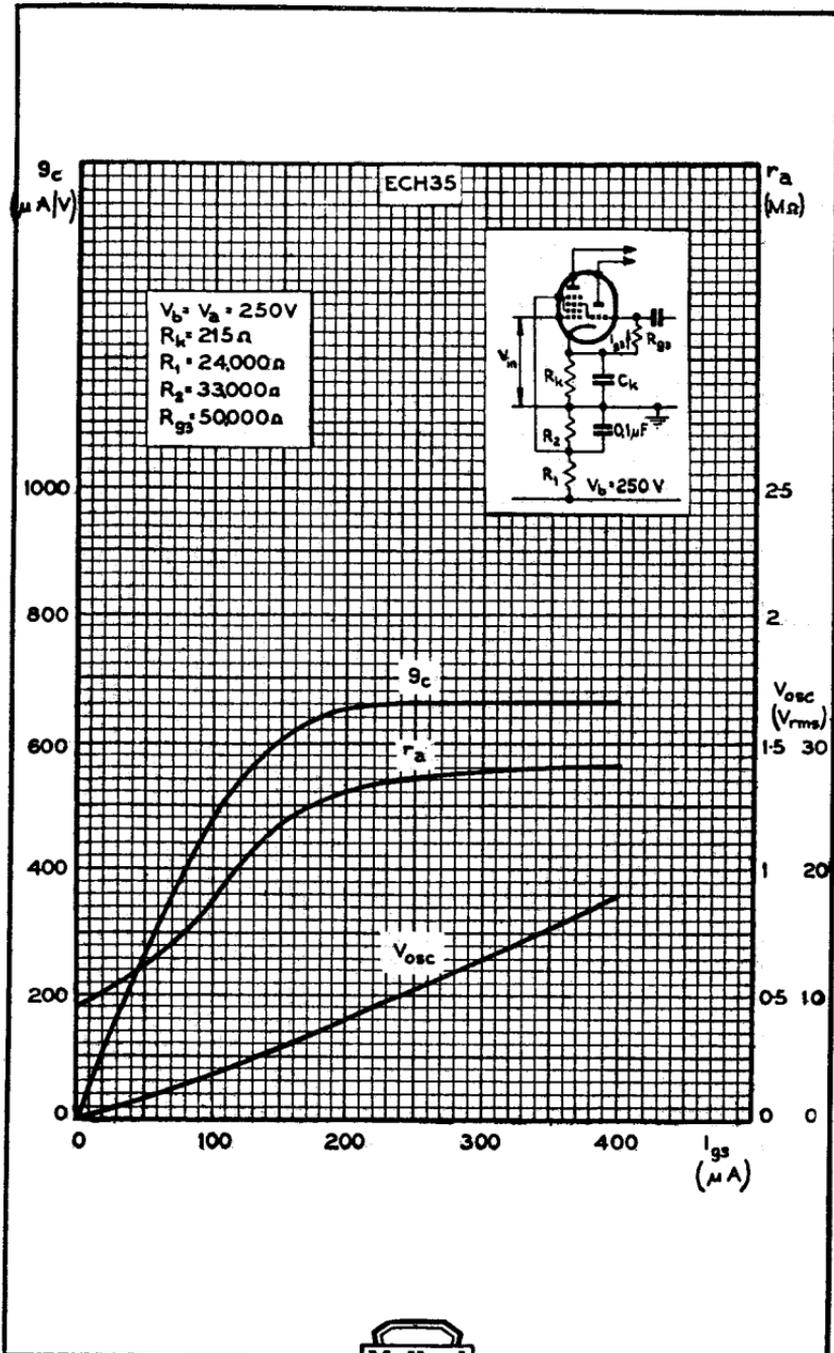
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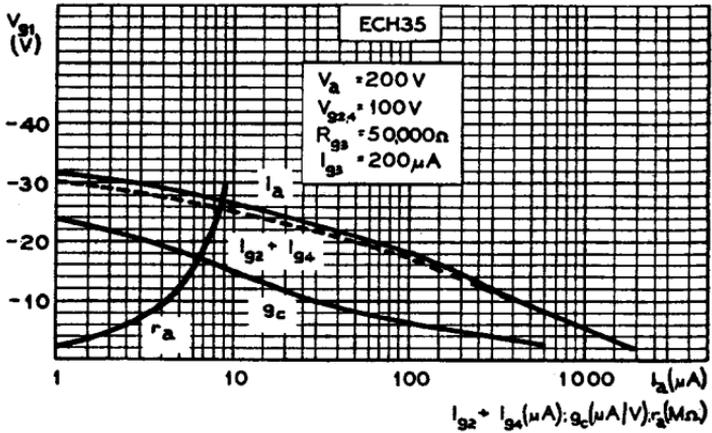
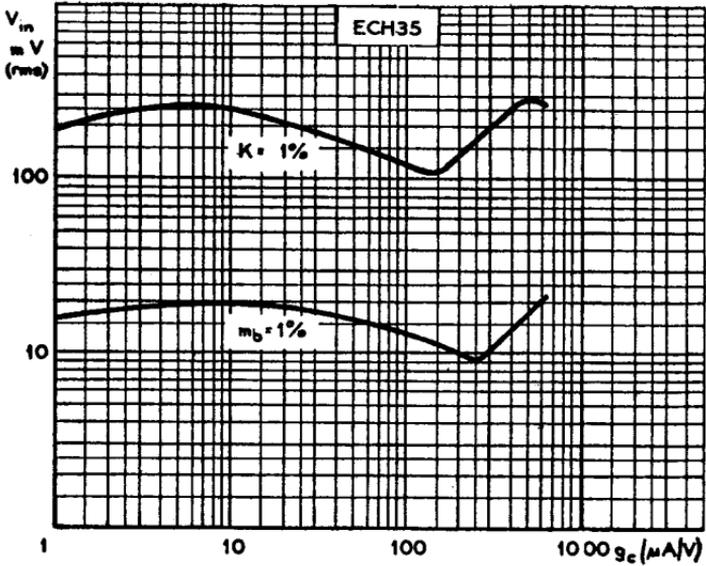
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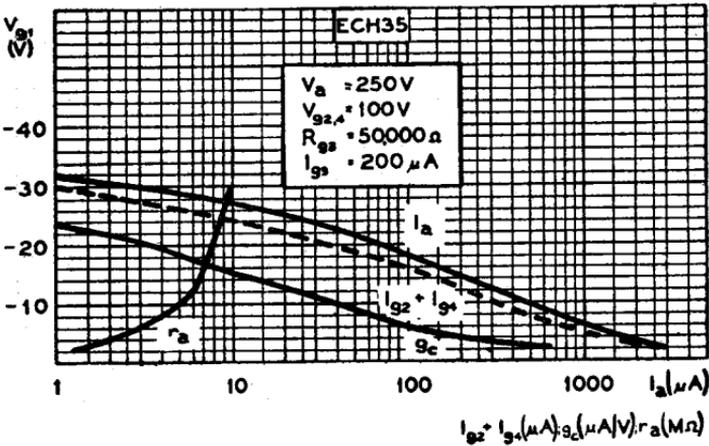
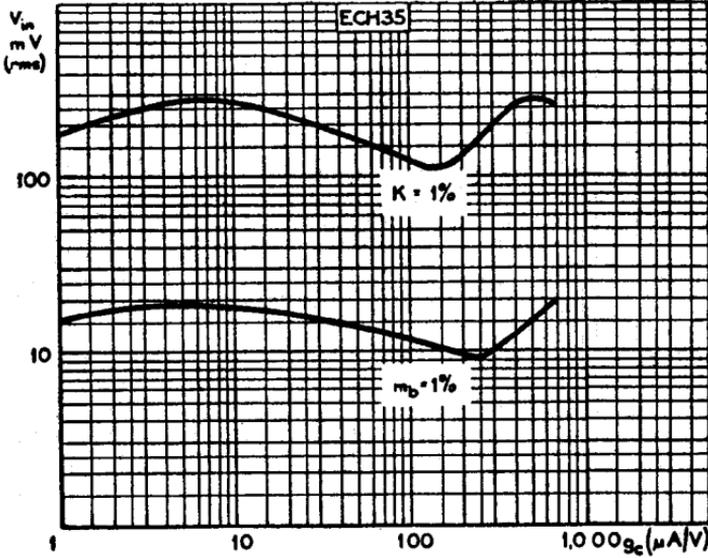
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