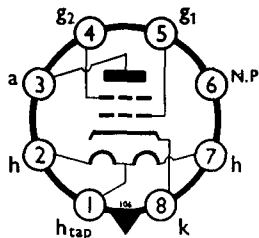




OUTPUT TETRODE
25V INDIRECTLY HEATED

KT33C
NOVEMBER, 1955

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside
of base.

Base : International octal.

Bulb : Dome top pear.

Max. overall length : 119 mm.

Max. seated length : 104 mm.

Max. diameter : 45 mm.

RATINGS

V_h	25	13	V
I_h	0.3	0.6	A
V_a		200 max.	V
V_{g2}		200 max.	V
P_a		13 max.	W
g_m	{ at $V_a = V_{g2} = 175$ $V_{g1} = -7$ }		10 mA/V

CAPACITANCES

C_{in}	19 pF	C_{out}	12 pF	C_{a-g1}	1.2 pF
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TYPICAL OPERATION

Single valve Class A

Tetrode connection

V_a	200	150	V
V_{g2}	200	150	V
V_{g1}	-13.3	-9.9	V
I_a (o)	60	44	mA
I_{g2} (o)	10	8	mA
V_{in} (pk)	12.3	8.9	V
R_k	190	190	Ω
R_L	3	3	k Ω
P_{out}	5	3	W
D	8	8	%

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Push-pull Class AB₁ Two valves

Tetrode connection

V _a	200	150	V
V _{g2}	200	150	V
V _{g1}	— 19·1	— 13·2	V
I _a (o)	113	80	mA
I _{g2} (o)	18	12	mA
V _{in} (pk) (g-g)	44	24	V
R _k (per valve)	240	240	Ω
R _L (a-a)	4	4	kΩ
P _{out}	15·5	7·5	W
D	7·5	3·9	%

GENERAL

For the prevention of parasitic oscillation a series resistor of 100Ω should be connected directly to the screen grid tag of the valve socket.

A control grid series resistor of 10/50kΩ is also recommended.

The maximum permissible D.C. resistance between control grid and anode is limited to 0·47MΩ for auto-bias, and 0·1MΩ for fixed bias operation.

MOUNTING

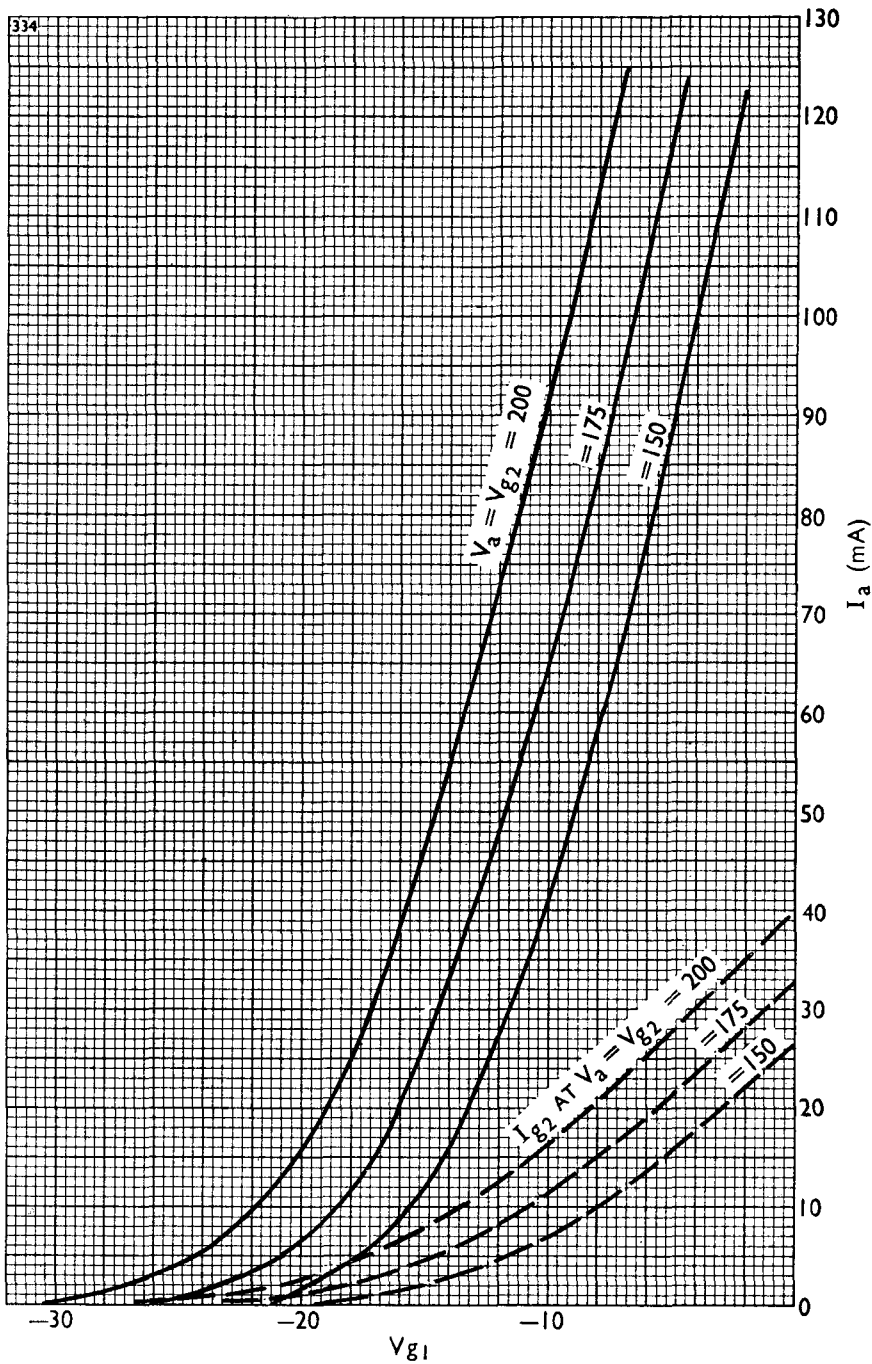
Any position.

RETAINING

A retaining device is not normally necessary.

VENTILATION

Adequate ventilation around the bulb should be provided.



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