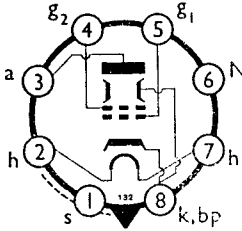


The KT88 has an anode dissipation of 35W and is primarily designed for the output stage of an a.f. amplifier for which two valves will provide up to 100W output. Under intermittent conditions, an output of 150W is obtainable in Class B (see Circuit Supplement). It is also suitable for use as a series valve in a stabilised power supply.

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base : Metal shell wafer octal.

Bulb : Tubular

Max. overall length : 125 mm.

Max. seated length : 110 mm.

Max. diameter : 52 mm.

HEATER

V_h	6.3	V
I_h	1.6	A

MAXIMUM RATINGS

V_a	600	V
V_{g2}	600	V
* $V_{a,g2}$	600	V
p_a	35	W
p_{g2}	6	W
* p_{a+g2}	40	W
I_k	175	mA
V_{h-k}	150	V
R_{g-k} (cathode bias)	220†	kΩ
R_{g-k} (fixed bias)	100†	kΩ

*Triode connection.

†Resistors of 20% tolerance may be used.

CAPACITANCES

c_{g-a}	1.2 pF	c_{in}	16 pF	c_{out}	12 pF
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CHARACTERISTICS

	Pentode Connection		Triode Connection	
V_a	250	V	$V_{a,g2}$	250
V_{g2}	250	V	I_h	160
I_a	140	mA	g_m	12
g_m	11	mA/V	r_a	670
r_a	12	kΩ	μ	8
μ_{g1-g2}	8			

Distributors :

BRITISH INDUSTRIES CORPORATION

80 Shore Road, Port Washington, New York, U.S.A.

Representing :

THE GENERAL ELECTRIC CO. LTD. OF ENGLAND

Head Office : Magnet House, Kingsway, London, W.C.2.

TYPICAL OPERATION

Push-Pull Ultra-Linear. Cathode Bias.

$V_{a(b)}$	500	V
$V_{a,g2}$	425	V
$I_{a+g2(o)}$	2×87	mA
$I_{a+g2(\max \text{ sig})}$	2×100	mA
$P_{a+g2(o)}$	2×40	W
$P_{a+g2(\max \text{ sig})}$	2×18	W
* R_k	$2 \times 525 \pm 5\%$	Ω
V_{g1} (approx)	-50	V
$V_{in(g-g)}$	90	V
$R_L(a-a)$	6	k Ω
z_{out}	4.5	k Ω
P_{out}	50	W
†D	1	%
†Intermodulation	5	%

*Separate bias resistors are essential.

†Average pair.

Push-Pull Ultra-Linear. Fixed Bias.

$V_{a(b)}$	560	V
$V_{a,g2}$	550	V
$I_{a+g2(o)}$	2×50	mA
$I_{a+g2(\max \text{ sig})}$	2×150	mA
$P_{a+g2(o)}$	2×30	W
$P_{a+g2(\max \text{ sig})}$	2×33	W
* V_{g1} (approx)	-80	V
$V_{in(g-g)}$	120	V
$R_L(a-a)$	4.5	k Ω
z_{out}	6.5	k Ω
P_{out}	100	W
†D	3-6	%
Intermodulation	12	%

*A negative bias range of $70 \pm 25\%$ is recommended.

†The distortion will vary according to the degree of matching.

Push-Pull Triode Connection. Cathode Bias.

$V_{a(b)}$	400	485	V
$V_{a,g2}$	350	425	V
$I_{a+g2(o)}$	2×67	2×85	mA
$I_{a+g2(\max \text{ sig})}$	2×72	2×90	mA
$P_{a+g2(o)}$	2×24	2×40	W
* R_k	$2 \times 525 \pm 5\%$	$2 \times 525 \pm 5\%$	Ω
V_{g1} (approx)	-38	-48	V
$V_{in(g-g)}$	60	70	V
$R_L(a-a)$	4	4	k Ω
z_{out}	2.5	2.5	k Ω
P_{out}	15	27	W
†D	1-3	1-3	%
Intermodulation	6	6	%

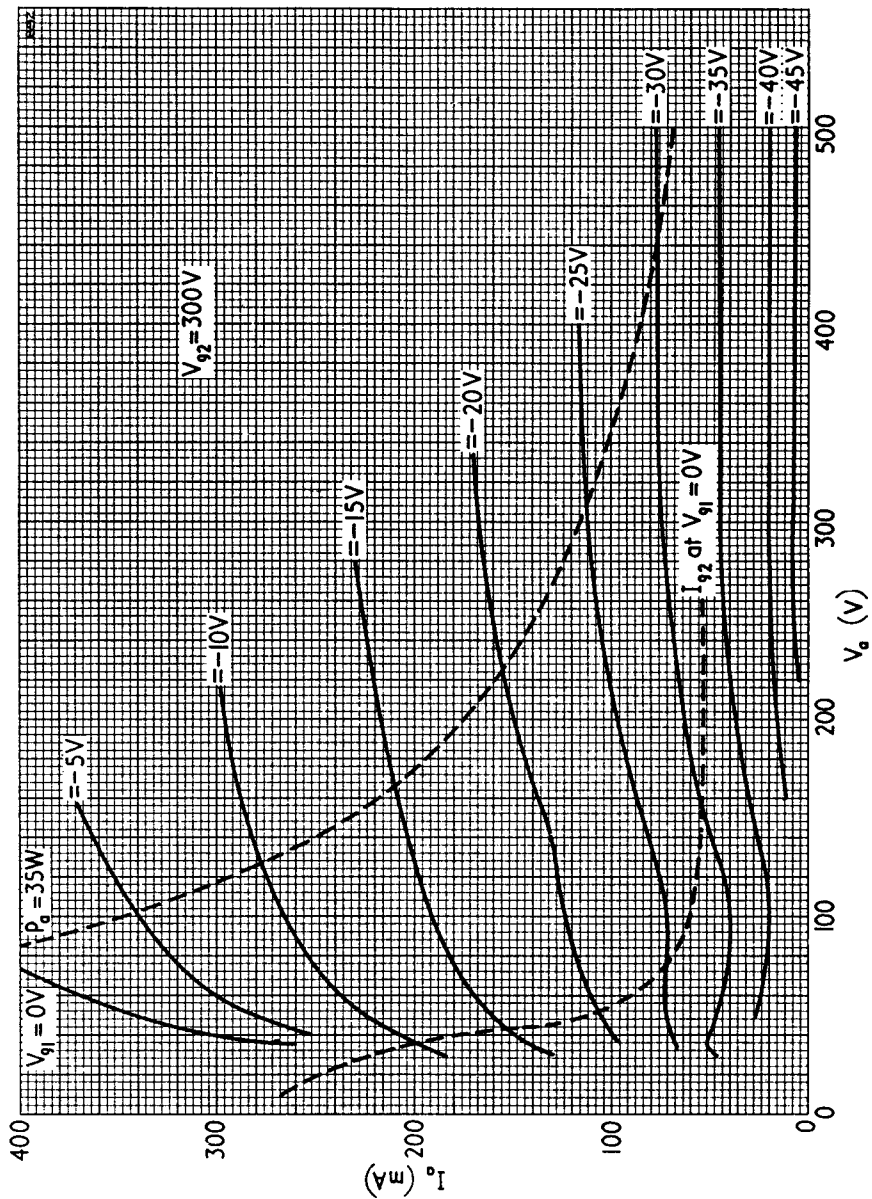
*Separate bias resistors are essential.

†The distortion will vary according to the degree of matching.

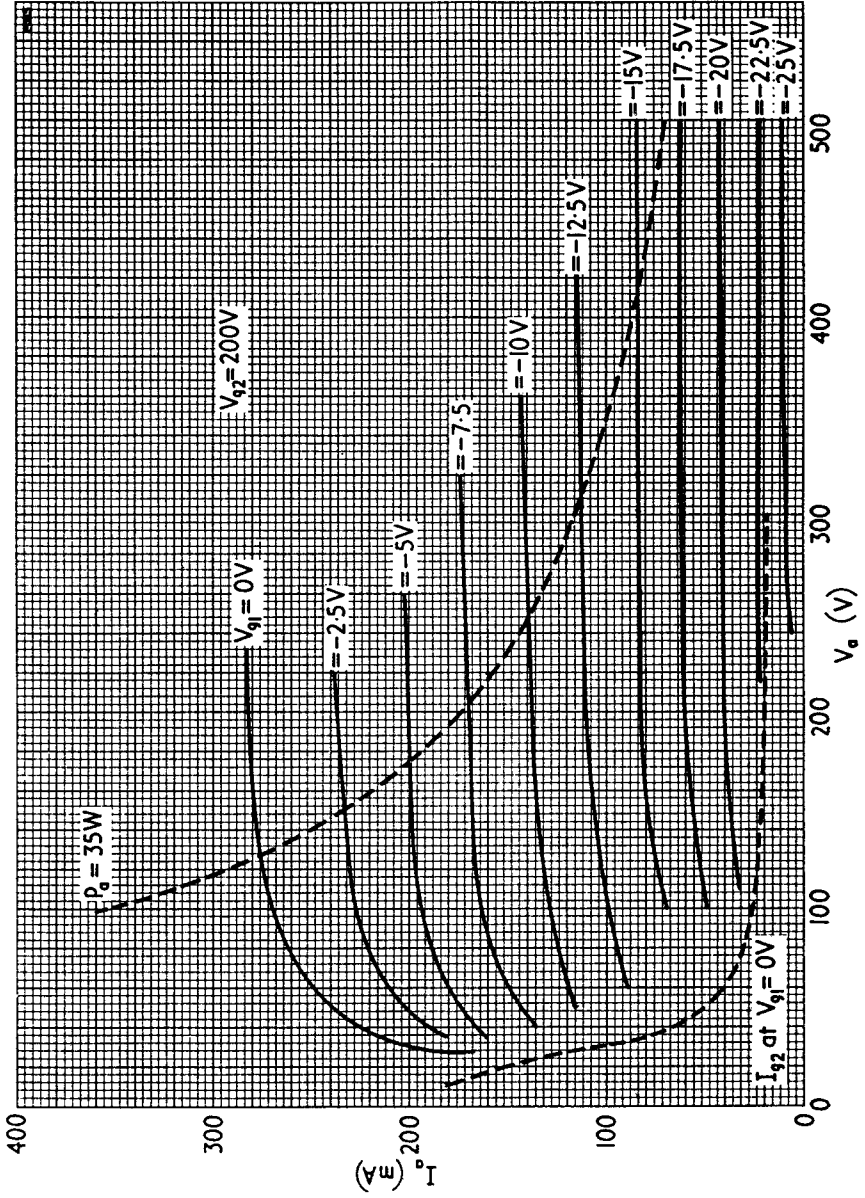
INSTALLATION

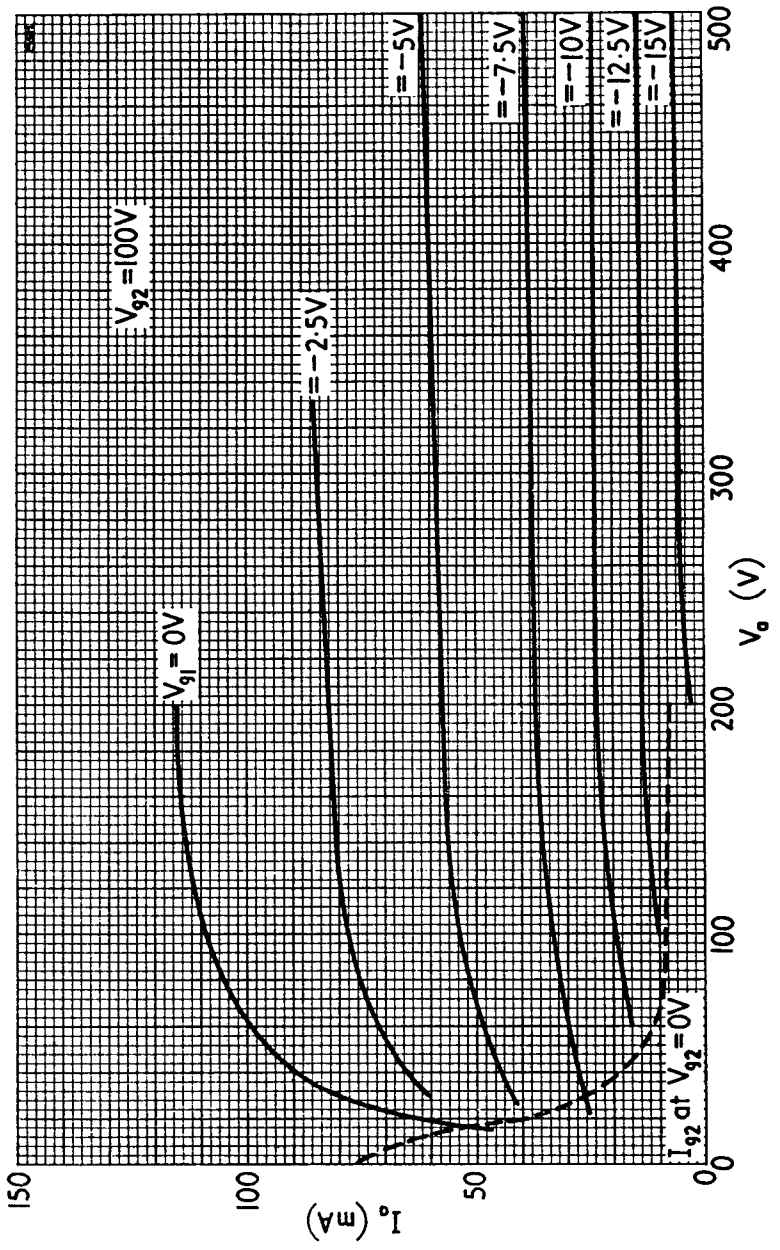
The valve may be mounted horizontally only if pins 4 and 8 are in a vertical plane.

Free air circulation round the valve is desirable ; the hottest part of the bulb should not exceed 250°C.

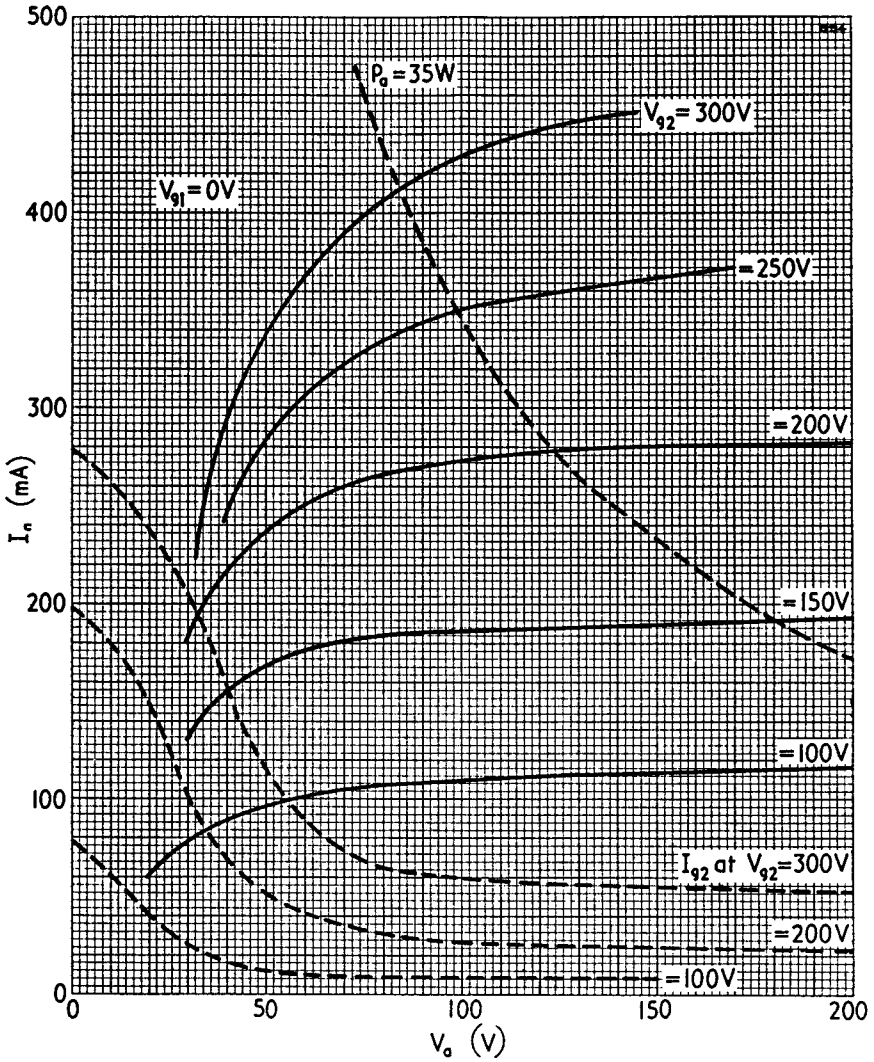


KT88

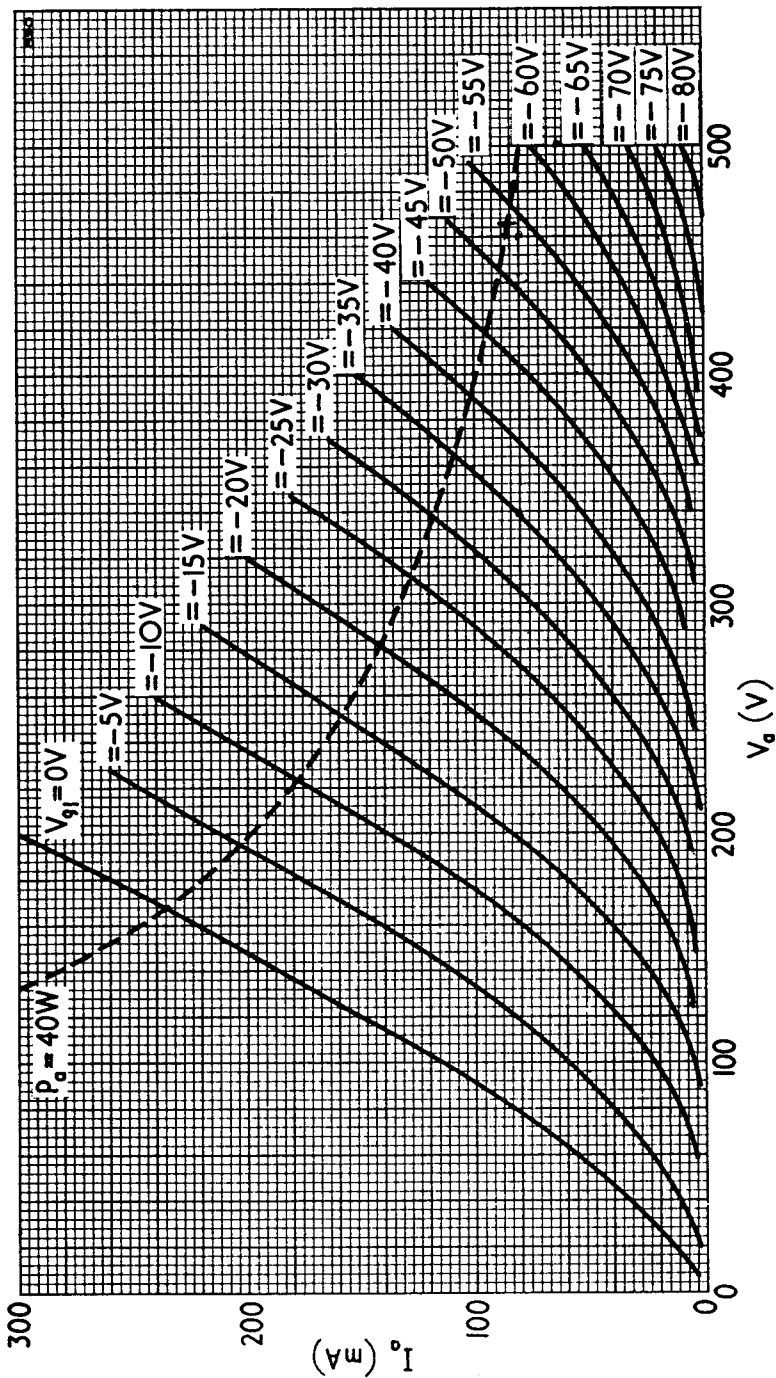


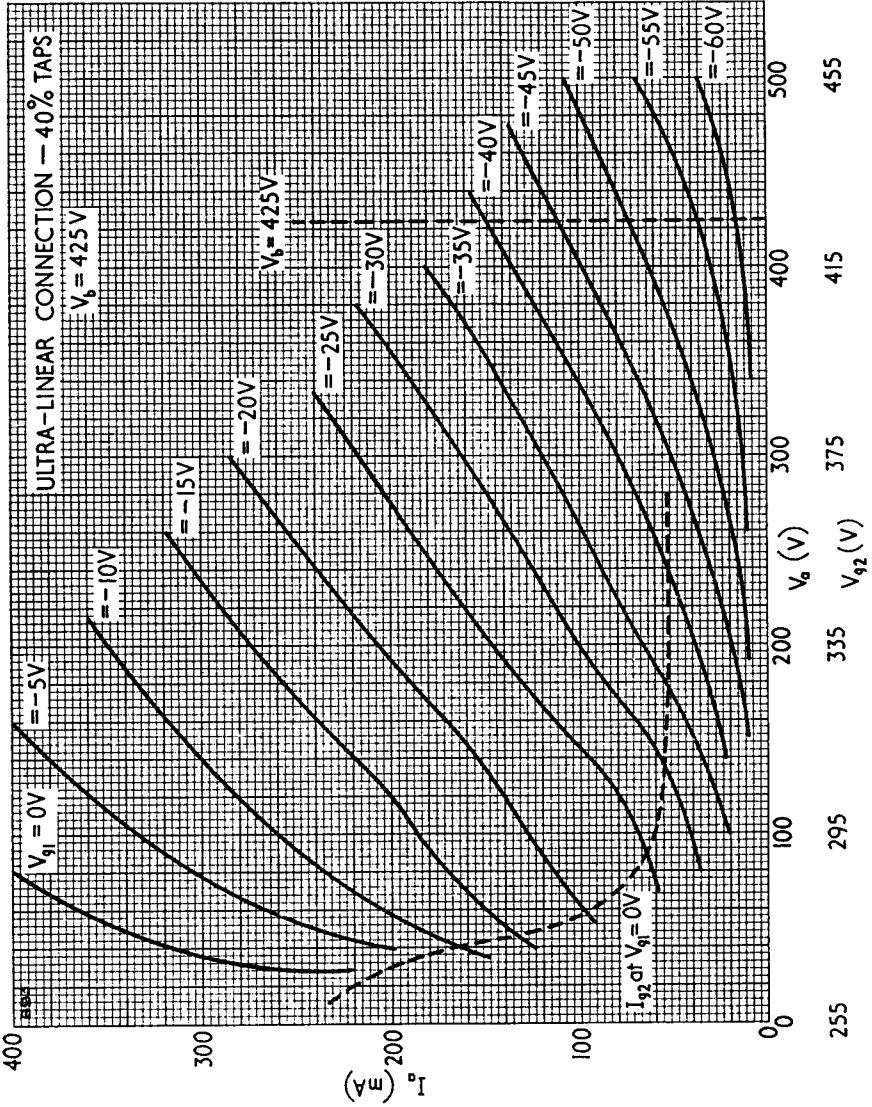


KT88



TRIODE CONNECTION





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