

DOUBLE DIODE OUTPUT PENTODE

CBL31

High-sensitivity output pentode for use in A.C. mains-operated equipment, and combined with twin diodes.

HEATER

This valve is suitable for DC/AC operation.

V _h	44.0	V
I _h	0.2	A

CAPACITANCES

c _{ad'-k}	3.5	μμF
c _{ad"-k}	3.5	μμF
c _{ad'-ad"}	≤ 0.5	μμF
c _{ad'-gl}	≤ 0.2	μμF
c _{ad"-gl}	≤ 0.2	μμF

OPERATING CONDITIONS

V _a	200	V
V _{g2}	200	V
V _{g1}	-8.5	V
I _a	45	mA
I _{g2}	6	mA
g _m	8	mA/V
r _a	35,000	ohms
R _a	4,500	ohms
V _{in rms}	5	V
V _{in rms} (W _{out} = 50 mW)	0.5	V
W _{out}	4	W
D _{tot}	10	β
R _k	167	ohms

LIMITING VALUES

V _{a(b) max.}	550	V
V _{a max.}	250	V
w _{a max.}	9	W
I _{k max.}	70	mA
V _{g2(b) max.}	550	V
V _{g2 max.}	250	V
w _{g2 max.}	2	W
V _{g1 max.} (I _{g1} = 0.3 μA)	-1.3	V
R _{g1 max.} (self bias)	1	Megohm
V _{h-k max.}	125	V
R _{h-k max.}	5,000	ohms
V _{ad' max.}	200	V
V _{ad" max.}	200	V
I _{ad' max.}	0.8	mA
I _{ad" max.}	0.8	mA
V _{ad' max.} (I _{ad'} = +0.3 μA)	-1.3	V
V _{ad" max.} (I _{ad''} = +0.3 μA)	-1.3	V

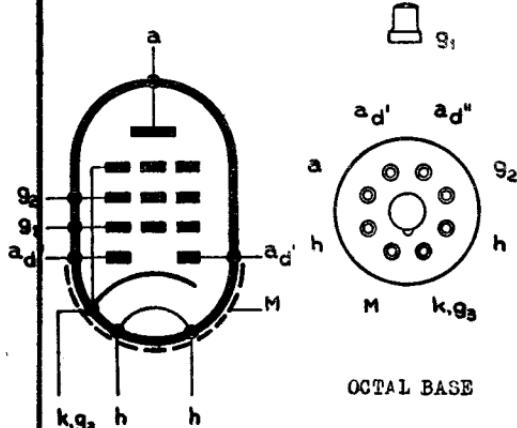
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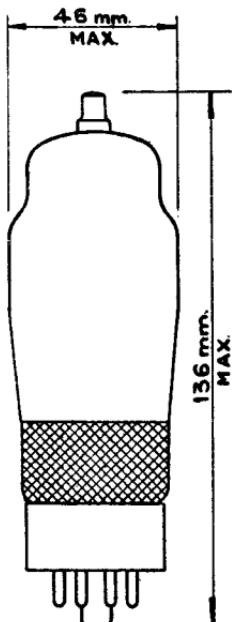
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DIMENSIONS

ARRANGEMENT OF ELECTRODES
AND BASE CONNECTIONS



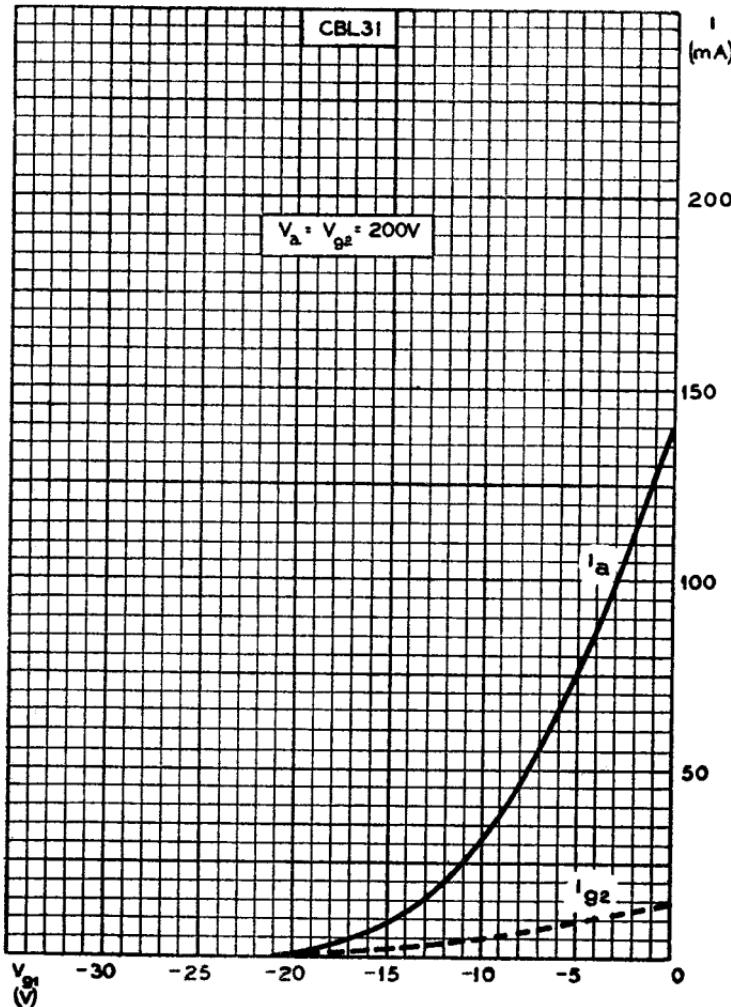
OCTAL BASE



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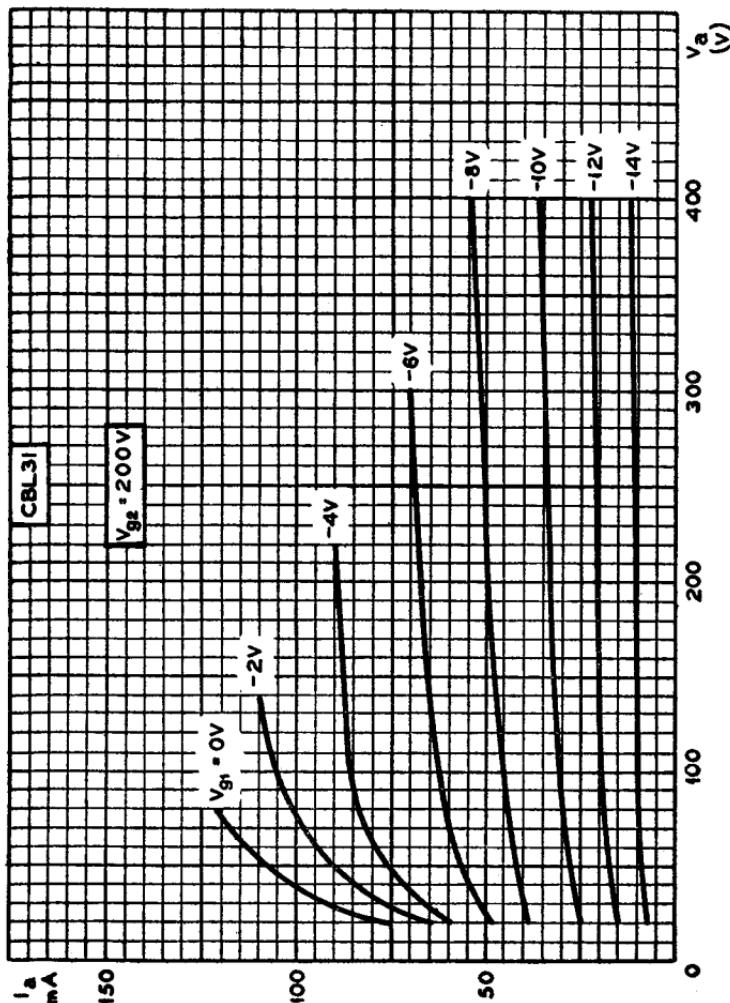
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CBL3I

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High-sensitivity output pentode for use in D.C./A.C.
mains-operated equipment and combined with twin diodes.

