

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	μF
$C_{ad''-k}$	3.5	μF
$C_{ad'-ad''}$	0.5	μF
$C_{ad'-g1}$	0.2	μF
$C_{ad''-g1}$	0.2	μF

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	$^{\circ}C$
R_k	167	ohms

LIMITING VALUES

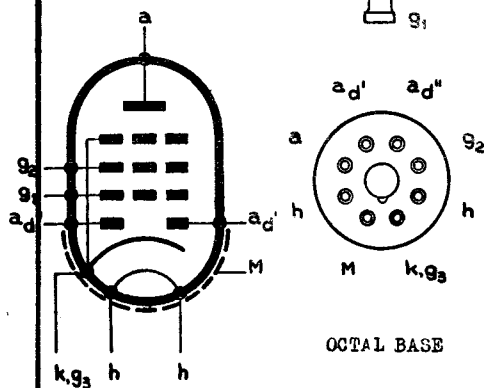
$V_{a(b)}$ max.	550	V
V_a max.	250	V
w_a max.	9	W
I_k max.	70	mA
$V_{g2(b)}$ max.	550	V
V_{g2} max.	250	V
w_{g2} max.	2	W
V_{g1} max. ($I_{g1}=0.3\mu A$)	-1.3	V
R_{g1} max. (self bias)	1	megohm
V_{h-k} max.	125	V
R_{h-k} max.	5,000	ohms
$V_{ad'}$ max.	200	V
$V_{ad''}$ max.	200	V
$I_{ad'}$ max.	0.8	mA
$I_{ad''}$ max.	0.8	mA
$V_{ad'}$ max. ($I_{ad'} = +0.3\mu A$)	-1.3	V
$V_{ad''}$ max. ($I_{ad''} = +0.3\mu A$)	-1.3	V

CBL31

DOUBLE DIODE OUTPUT PENTODE

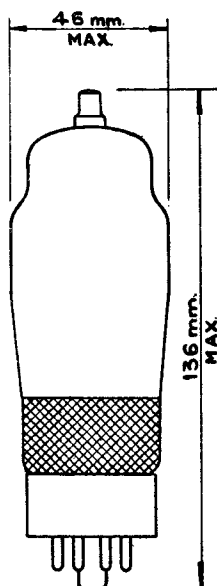
High-sensitivity output pentode for use in A.C. mains-operated equipment, and combined with twin diodes.

ARRANGEMENT OF ELECTRODES
AND BASE CONNECTIONS



OCTAL BASE

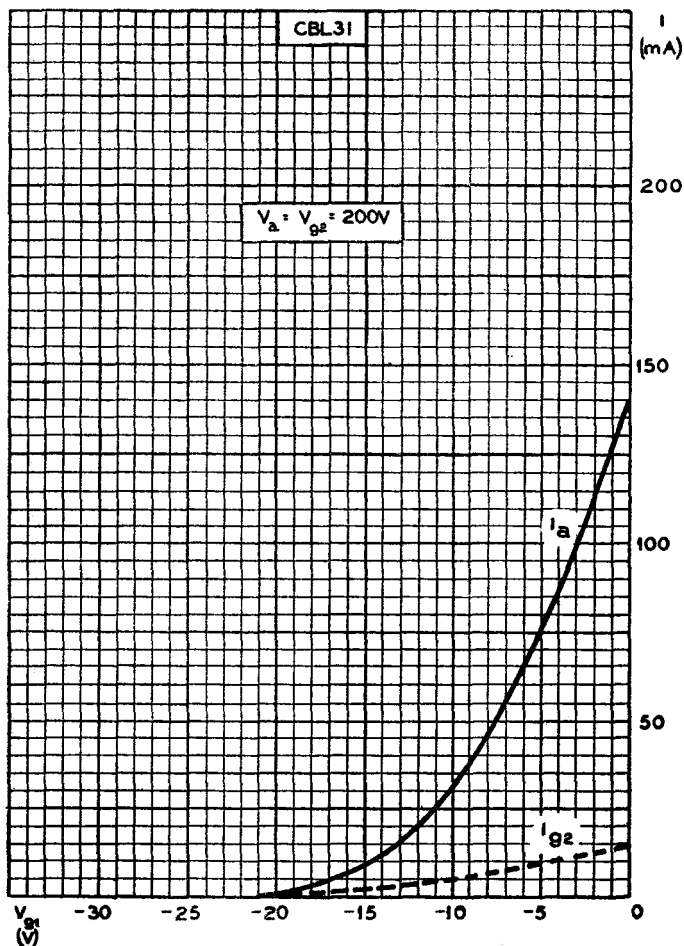
DIMENSIONS



DOUBLE DIODE OUTPUT PENTODE

CBL31

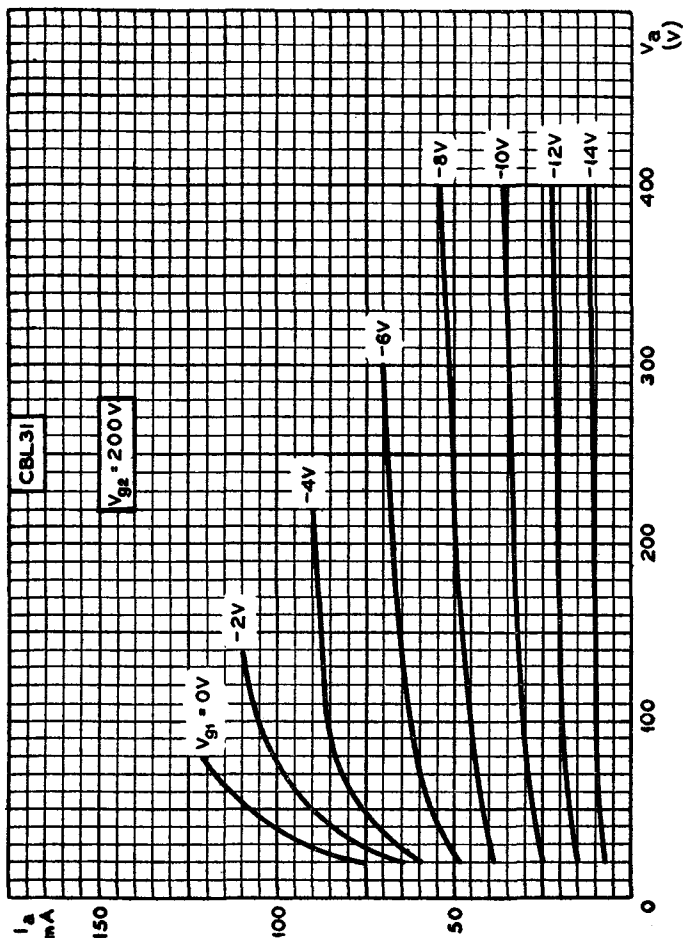
High-sensitivity output pentode for use in A.C. mains-operated equipment, and combined with twin diodes.



CBL31

DOUBLE DIODE OUTPUT PENTODE

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



DOUBLE DIODE OUTPUT PENTODE

CBL31

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

