

4 VALVE DATA PREFERRED TYPES D VOLTAGE AMPLIFYING TRIODES

DAC 32 Single diode triode

FILAMENT

V_f 1.4 V I_f 0.05 A Suitable for D.C. operation only

CAPACITANCES

Triode section

C_{g-k}	1.3 $\mu\mu\text{F}$
C_{a-k}	6.0 $\mu\mu\text{F}$
C_{a-g}	1.0 $\mu\mu\text{F}$

Diode section

C_{ad-r}	3.2 $\mu\mu\text{F}$
C_{ad-g}	0.002 $\mu\mu\text{F}$
C_{ad-at}	0.2 $\mu\mu\text{F}$

The diode anode is located at the negative end of the filament

OPERATING CONDITIONS

Triode Section as Class "A" Amplifier

V_a	90	V
V_g	0	V
I_a	0.15	mA
μ	65	
r_a	240	K Ω
g_m	275	$\mu\text{A/V}$

LIMITING VALUE

V_a max.	110	V
------------	-----	---



65

BASE :
Octal

DIMENSIONS :

L = 102 mm
 D = 30 mm

EBC33 Double diode triode

HEATER

V_h 6.3 V I_h 0.2 A Suitable for series or parallel operation

CAPACITANCES

C_{ad-k}	2.6 $\mu\mu\text{F}$
C_{ad-k}	3.2 $\mu\mu\text{F}$
C_{ad-ad}	< 0.7 $\mu\mu\text{F}$

OPERATING CONDITIONS

As Transformer Coupled A.F. Amplifier

V_a	100	200	250	V
I_a	2	4	5	mA
V_g	-2.1	-4.3	-5.5	V
μ	30	30	30	
g_m	1.6	2.0	2.0	mA/V
r_a	19	15	15	K Ω



OPERATING CONDITIONS

As resistance coupled A.F. amplifier

EBC 33
(contd.)

V_b (V)	R_a (K Ω)	I_a (mA)	R_k (K Ω)	V_{out} V_{in}	V_{out}^* (V)	D_{tot} (%)	R_{g1}^{**} (K Ω)
300	47	2.8	1.2	19.5	45	5.8	150
250	47	2.3	1.2	19.0	34	5.5	150
200	47	1.8	1.2	18.5	26	5.2	150
100	47	0.5	4.7	13.0	8	10.0	150
300	100	1.5	2.2	22.0	49	5.2	330
250	100	1.27	2.2	22.0	41	5.2	330
200	100	1.0	2.2	21.5	31	5.0	330
100	100	0.32	6.8	16.5	14	10.0	330
300	220	0.83	3.9	23.5	52	4.8	680
250	220	0.69	3.9	23.5	41	4.6	680
200	220	0.53	3.9	23.0	31	4.5	680
100	220	0.2	10	19.0	20	10.0	680

* V_{out} =Output voltage at start of I_g or D_{tot} =10%

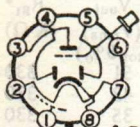
** R_{g1} =Grid resistance of following valve

LIMITING VALUES

$V_{a(b)}$ max.	550	V
V_a max.	300	V
p_a max.	1.5	W
I_k max.	10	mA
R_{g-k} max. (Self bias)	3	M Ω
R_{g-k} max. (Fixed bias)	1	M Ω
V_{h-k} max.	100	V

Each diode

V_{ad} max.	200	V
I_{ad} max.	0.8	mA
V_{h-k} max.	100	V



BASE :
Octal

DIMENSIONS :
L=100 mm
D=32 mm

62

Double diode triode

EBC 41

HEATER

V_h 6.3 V I_h 0.225 A Suitable for A.C. operation only

CAPACITANCES

C_{ad-ad}	<0.15	$\mu\mu F$
$C_{ad-ad-at}$	<0.02	$\mu\mu F$
C_{ad-gt}	<0.007	$\mu\mu F$
C_{ad-gt}	<0.03	$\mu\mu F$
C_{ad-h}	<0.05	$\mu\mu F$

