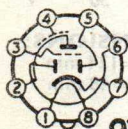


VOLTAGE AMPLIFYING TRIODES D

LIMITING VALUES

$V_{a(b)}$ max.	550	V
V_a max.	300	V
I_k max.	5	mA
p_a max.	0.5	W
R_{g-k} max. (cathode bias)	3	M Ω
V_{h-k} max.	100	V
$V_{ad(pk)}$ max.	200	V
I_{ad} max.	0.8	mA

EBC 41
(contd.)



97

BASE:
B8A

DIMENSIONS:
L=60 mm
D=22 mm

(ad' to pin 6, ad" to pin 5)

Low impedance triode, for use as voltage amplifier or low power output valve

EC 31

HEATER

V_h 6.3 V I_h 0.65 A Suitable for A.C. mains operation

OPERATING CONDITIONS

As R.C. amplifier

$V_{a(b)}$	250	350	450	550	V
R_a	82	100	120	150	K Ω
V_{in} (r.m.s.)	5.8	9.0	11.5	13.0	V
I_a	1.6	2.0	2.3	2.5	mA
R_k	8.2	8.2	8.2	8.2	K Ω
V_{out}/V_{in}	7.2	6.5	7.0	7.4	

OPERATING CONDITIONS

As output valve (Class "A")

V_a	250	V
V_g	-16	V
I_a	20	mA
R_k	800	Ω
g_m	3.2	mA/V
μ	10.5	
r_a	3.3	K Ω
R_a	10	K Ω
$V_{in(rms)}$	9.1	V
P_{out} ($D_{tot}=5\%$)	0.50	W



4 VALVE DATA PREFERRED TYPES D VOLTAGE AMPLIFYING TRIODES

EC 31 LIMITING VALUES (contd.)



BASE :
Octal

DIMENSIONS:
L=124 mm
D=48 mm

ECC 31 Double diode with common cathode

HEATER

V_h 6.3 V I_h 0.95 A Suitable for A.C. mains operation

CAPACITANCES

$C_{a'-g'}$	3.4	$\mu\mu\text{F}$	$C_{c''-g''}$	3.75	$\mu\mu\text{F}$
$C'_{g'-k}$	4.0	$\mu\mu\text{F}$	$C_{g''-k}$	4.0	$\mu\mu\text{F}$
$C_{a'-k}$	1.9	$\mu\mu\text{F}$	$C_{a''-k}$	1.0	$\mu\mu\text{F}$

CHARACTERISTICS

Each section

V_b	250	V	V_g	-4.6	V
I_a	6.0	mA	g_m	2.3	mA/V
μ	32		r_a	14	K Ω

OPERATING CONDITIONS

As R.C. coupled amplifier

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)
400	47	3.9	1.2	21	67	3.7	150
350	47	3.4	1.2	20.5	57	3.6	150
300	47	2.9	1.2	20	48	3.5	150
250	47	2.4	1.2	19.5	37	3.4	150
200	47	1.9	1.2	19.5	26	3.2	150
400	100	2.1	2.7	25	81	3.0	330
350	100	1.8	2.2	25	69	2.9	330
300	100	1.6	2.2	24.5	54	2.8	330
250	100	1.3	2.2	24.5	44	2.6	330
200	100	1.05	2.2	24	32	2.4	330

