

DOUBLE DIODE TRIODE

EBC33

Medium gain triode for use as A.F. voltage amplifier
and combined with twin diodes.

HEATER

This valve is suitable for DC/AC operation.

V_h	6.3	V
I_h	0.2	A

CAPACITANCES

$C_{ad'-k}$	2.6	$\mu\mu\text{F}$
$C_{ad''-k}$	3.2	$\mu\mu\text{F}$
$C_{ad'-ad''}$	< 0.7	$\mu\mu\text{F}$
$C_{ad'-g}$	< 0.001	$\mu\mu\text{F}$
$C_{ad''-g}$	< 0.005	$\mu\mu\text{F}$

CHARACTERISTICS

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

V_h (V)	R_a (k Ω)	I_a (mA)	R_k (k Ω)	$\frac{V_{out}}{V_{in}}$	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_b max.	300	V
p_a max.	1.5	W
V_{ad} max.	200	V
I_{ad} max.	0.8	mA
I_k max.	10	mA
V_g max. ($I_g = 0.3\mu\text{A}$)	-1.3	V
R_g max. (Self bias)	3.0	M Ω
R_g max. (Fixed bias)	1.0	M Ω
V_{h-k} max.	150	V
R_{h-k} max.	20	k Ω

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