

# 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

$c_{ad^1-k}$	2.6	$\mu\text{F}$
$c_{ad''-k}$	3.2	$\mu\text{F}$
$c_{ad^1-ad''}$	< 0.7	$\mu\text{F}$
$c_{ad^1-g}$	< 0.001	$\mu\text{F}$
$c_{ad''-g}$	< 0.005	$\mu\text{F}$

## 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
$\mu$	30	30	30	
$g_m$	1.6	2.0	2.0	mA/V
$r_a$	19,000	15,000	15,000	ohms

## OPERATING CONDITIONS AS RESISTANCE-COUPLED A.F. AMPLIFIER

$V_b$ (V)	$R_a$ (ohms)	$I_a$ (mA)	$R_k$ (ohms)	$\frac{V_{out}}{V_{in}}$	$V_{out}^*$ (V)	$D_{tot}$ (%)	$R_{gl}^{**}$ (ohms)
300	47,000	2.8	1,200	19.5	45	5.8	150,000
250	47,000	2.3	1,200	19.0	34	5.5	150,000
200	47,000	1.8	1,200	18.5	26	5.2	150,000
100	47,000	0.5	4,700	13.0	8	10.0	150,000
300	100,000	1.5	2,200	22.0	49	5.2	330,000
250	100,000	1.27	2,200	22.0	41	5.2	330,000
200	100,000	1.0	2,200	21.5	31	5.0	330,000
100	100,000	0.32	6,800	16.5	14	10.0	330,000
300	220,000	0.83	3,900	23.5	52	4.8	680,000
250	220,000	0.69	3,900	23.5	41	4.6	680,000
200	220,000	0.53	3,900	23.0	31	4.5	680,000
100	220,000	0.2	10,000	19.0	20	10.0	680,000

\*  $V_{out}$  = Output voltage at start of  $I_g$  or  $D_{tot} = 10\%$ .  
 \*\*  $R_{gl}$  = Grid resistance of following valve.



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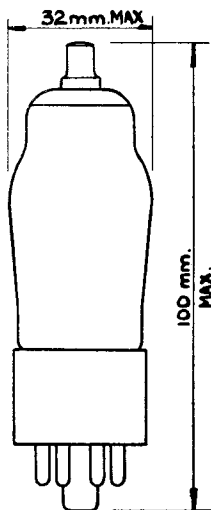
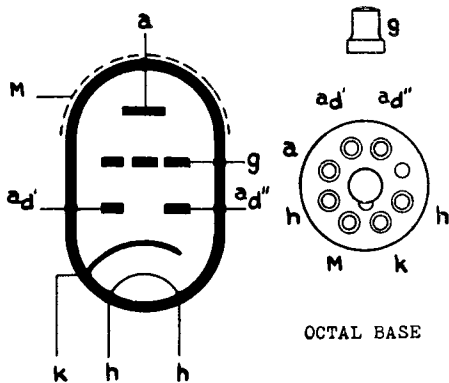
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### LIMITING VALUES

$V_{a(b)}$ max.	550	V
$V_a$ max.	300	V
$W_a$ max.	1.5	W
$V_{ad}$ max.	200	V
$I_{ad}$ max.	0.8	mA
$I_k$ max.	10	mA
$V_g$ max. ( $I_g=0.3\mu A$ )	-1.3	V
$R_g$ max. (Self bias)	3	M.ohms
$R_g$ max. (Fixed bias)	1	M.ohm
$V_{h-k}$ max.	100	V
$R_{h-k}$ max.	20,000	ohms

### ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS

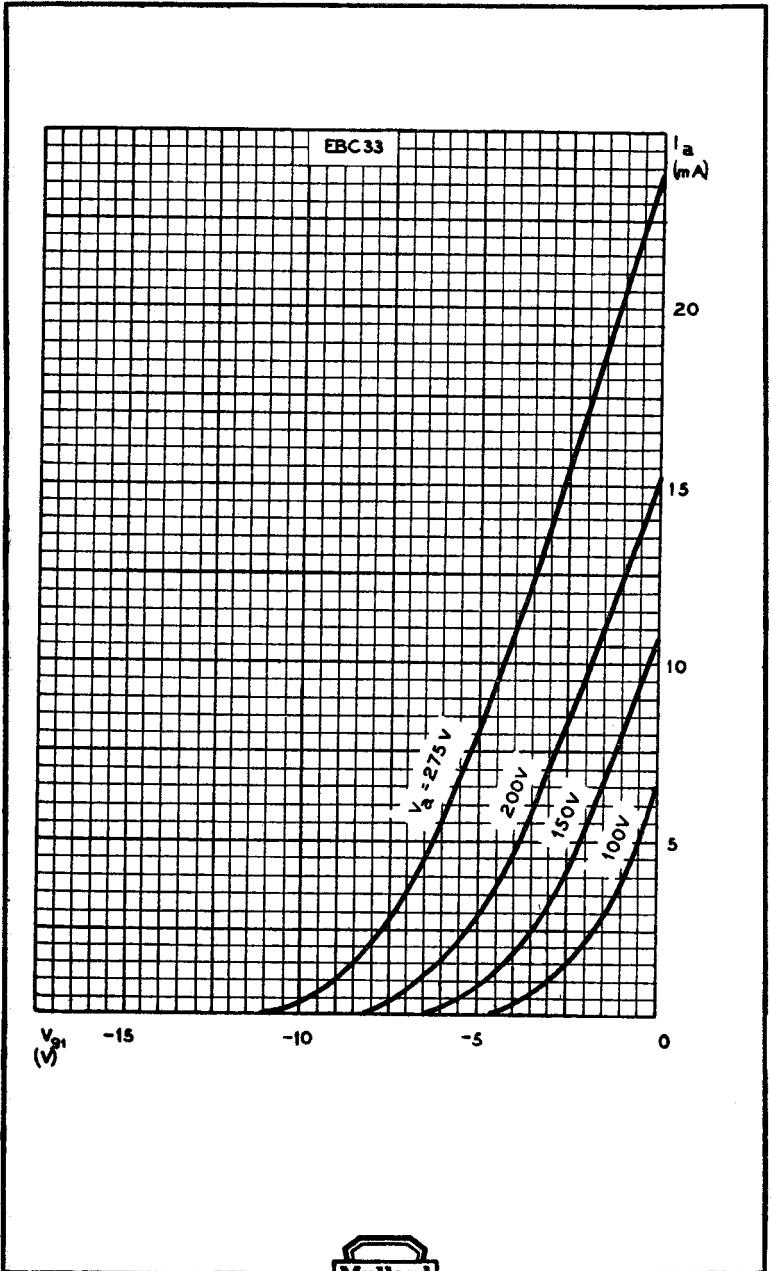
### DIMENSIONS



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