

TRIPLE DIODE TRIODE

EABC80

Triple diode triode, one diode having a separate cathode. Primarily designed for use in f.m./a.m. receivers.

HEATER

V_h	6.3	V
I_h	450	mA

CAPACITANCES

$C_{at-a'd}$	<0.12	pF
$C_{at-k''d}$	<0.01	pF
$C_{at-a'''d}$	<0.1	pF
$C_{g-a'd}$	<0.07	pF
$C_{g-k''d}$	<0.005	pF
$C_{g-a'''d}$	<0.02	pF

Triode Section

C_{in}	1.9	pF
C_{out}	1.4	pF
C_{at-g}	2.0	pF
C_{g-h}	<0.04	pF

Diode Sections

$C_{a'd-(h+kt, k'd, k'''d, s)}$	0.8	pF
$C_{a''d-(h+k''d+kt, k'd, k'''d, s)}$	4.8	pF
$C_{a'''d-(h+kt, k'd, k'''d, s)}$	4.8	pF
$C_{k''d-all}$	4.9	pF
$C_{a'd-h}$	<0.25	pF
$C_{a'''d-h}$	<0.2	pF
$C_{k''d-h}$	2.5	pF

CHARACTERISTICS

Triode Section

V_a	100	250	V
V_g	-1.0	-3.0	V
I_a	0.8	1.0	mA
g_m	1.45	1.4	mA/V
μ	70	70	
r_a	48	50	k Ω

Diode Sections

$r_{a'd} (V_{a'd}=+10V)$	5.0	k Ω
$r_{a''d} (V_{a''d}=+5V)$	200	Ω
$r_{a'''d} (V_{a'''d}=+5V)$	200	Ω
$r_{a'd}/r_{a'''d}$	0.65 to 1.5	

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OPERATING CONDITIONS AS RESISTANCE COUPLED A.F. AMPLIFIER* (with grid current biasing) ←

V_b (V)	R_a (k Ω)	I_a (mA)	$\frac{V_{out}}{V_{in}}$	D_{tot} (%) for $V_{out(r.m.s.)}$			$R_g^\dagger$ (k Ω)
				=3V	=5V	=8V	
170	47	1.25	32	0.6	1.1	2.0	150
170	100	0.82	42	0.5	0.8	1.3	330
170	220	0.46	51	0.4	0.5	1.1	680
200	47	1.6	34	0.5	0.9	1.5	150
200	100	1.0	44	0.4	0.6	1.0	330
200	220	0.56	53	0.3	0.4	0.9	680
250	47	2.2	36	0.3	0.6	1.0	150
250	100	1.4	47	0.25	0.5	0.8	330
250	220	0.76	54	0.2	0.25	0.6	680

*Measured with a grid resistor of 10M Ω .

$^\dagger R_g$ =grid resistor of following value.

LIMITING VALUES

Triode Section

$V_{a(b)}$ max.	550	V
V_a max.	300	V
p_a max.	1.0	W
I_k max.	5.0	mA
V_g max. ($I_g = +0.3\mu A$)	-1.3	V
* R_{g-k} max.	3.0	M Ω
R_{h-k} max.	20	k Ω
V_{h-k} max.	150	V

*With grid current biasing R_{g-k} max.=22M Ω .

Diode Sections

P.I.V. _(a'd) max.	350	V
P.I.V. _(g'd) max.	350	V
P.I.V. _(a'''d) max.	350	V
$I_{a'd}$ max.	1.0	mA
$I_{a''d}$ max.	10	mA
$I_{a'''d}$ max.	10	mA
$i_{a'd(pk)}$ max.	6.0	mA
$i_{a''d(pk)}$ max.	75	mA
$i_{a'''d(pk)}$ max.	75	mA

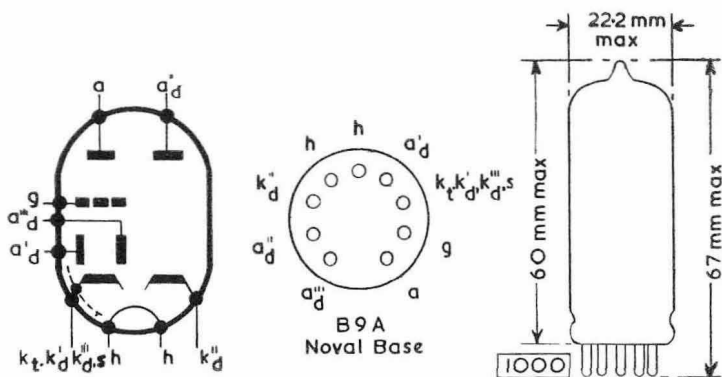
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MICROPHONY

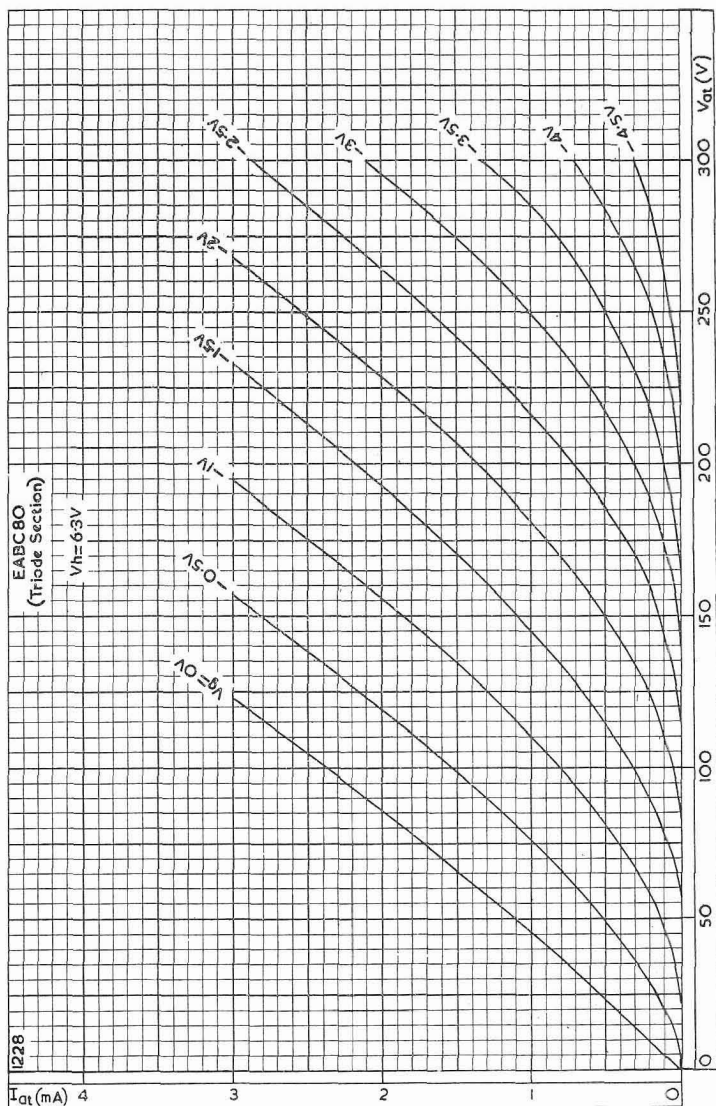
This valve can be used without special precautions against microphony in circuits in which the input voltage is not less than 10mV for an output of 50mV from the output stage at 800c/s and higher frequencies.



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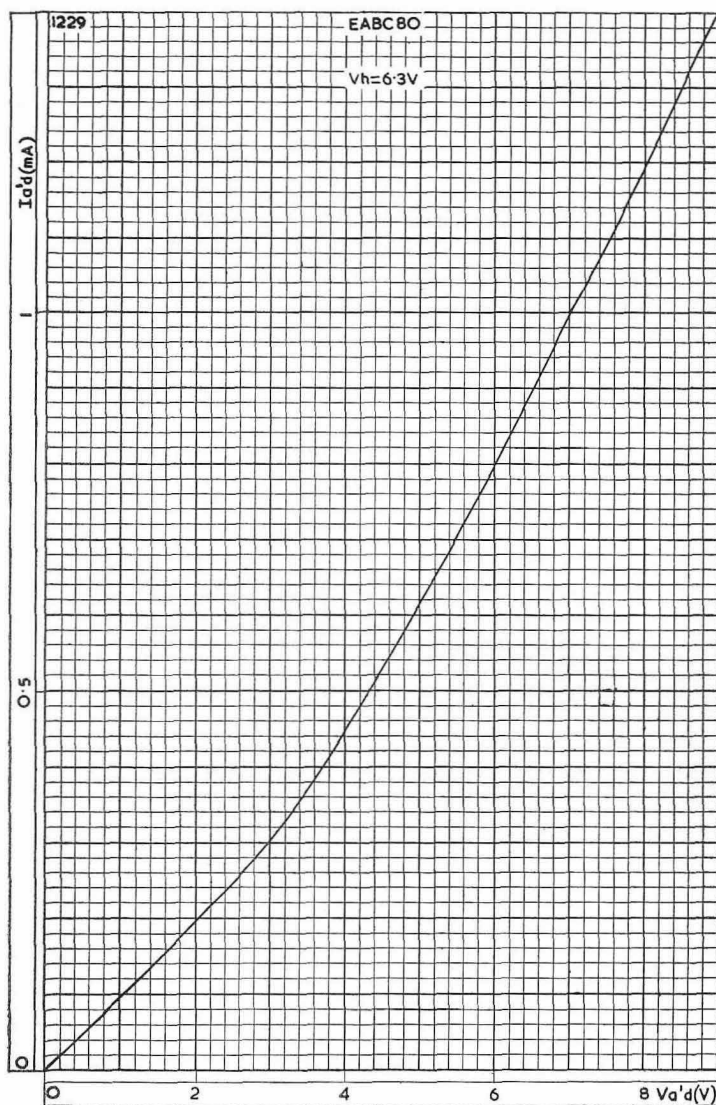


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH GRID VOLTAGE AS PARAMETER

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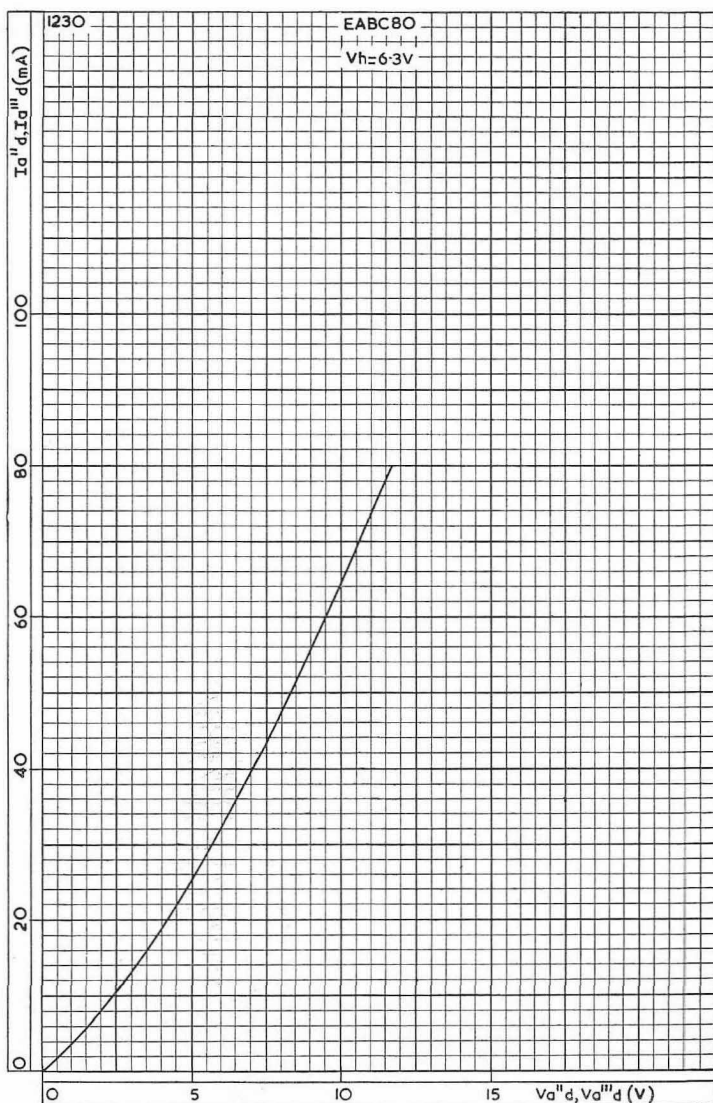


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE FOR DIODE SECTION $a'd$

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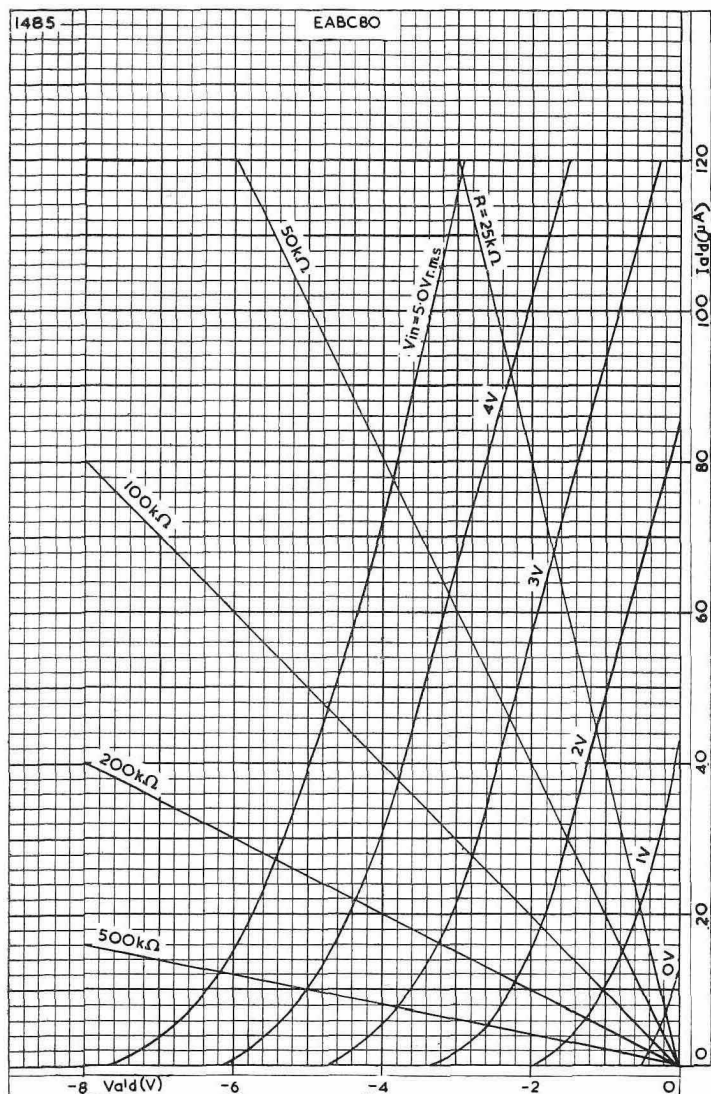


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE FOR DIODE SECTIONS a''_d AND a'''_d

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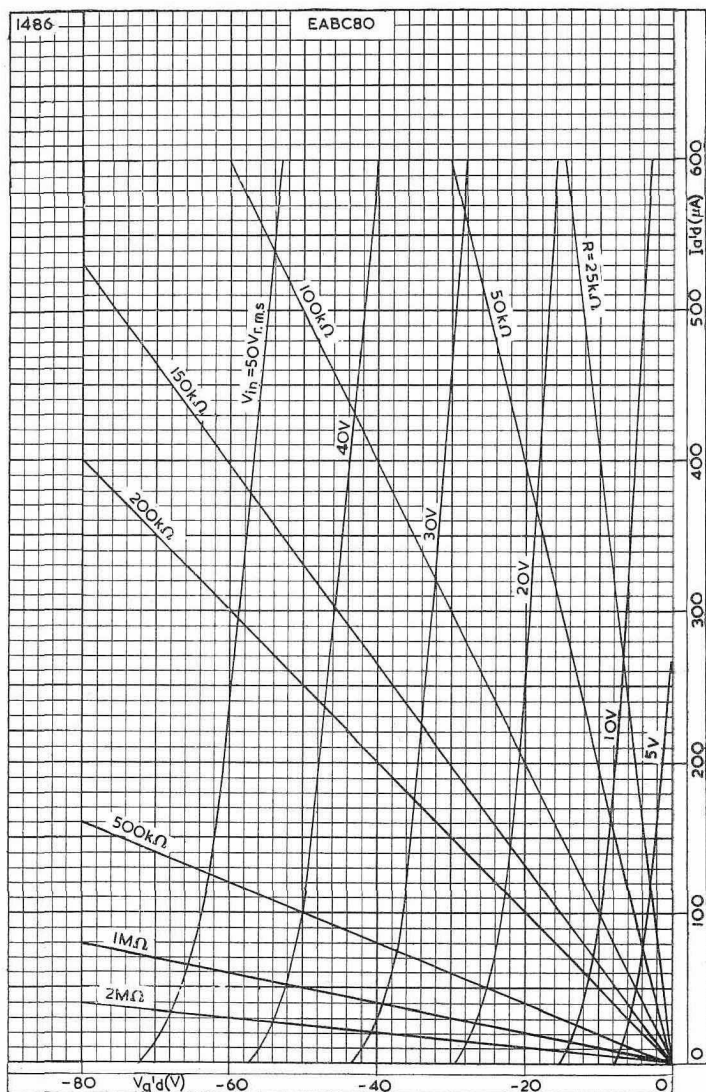


RECTIFIED CURRENT PLOTTED AGAINST OUTPUT VOLTAGE WITH INPUT VOLTAGE BETWEEN 0V AND 5V_{r.m.s.} AS PARAMETER FOR DIODE SECTION $a'd$

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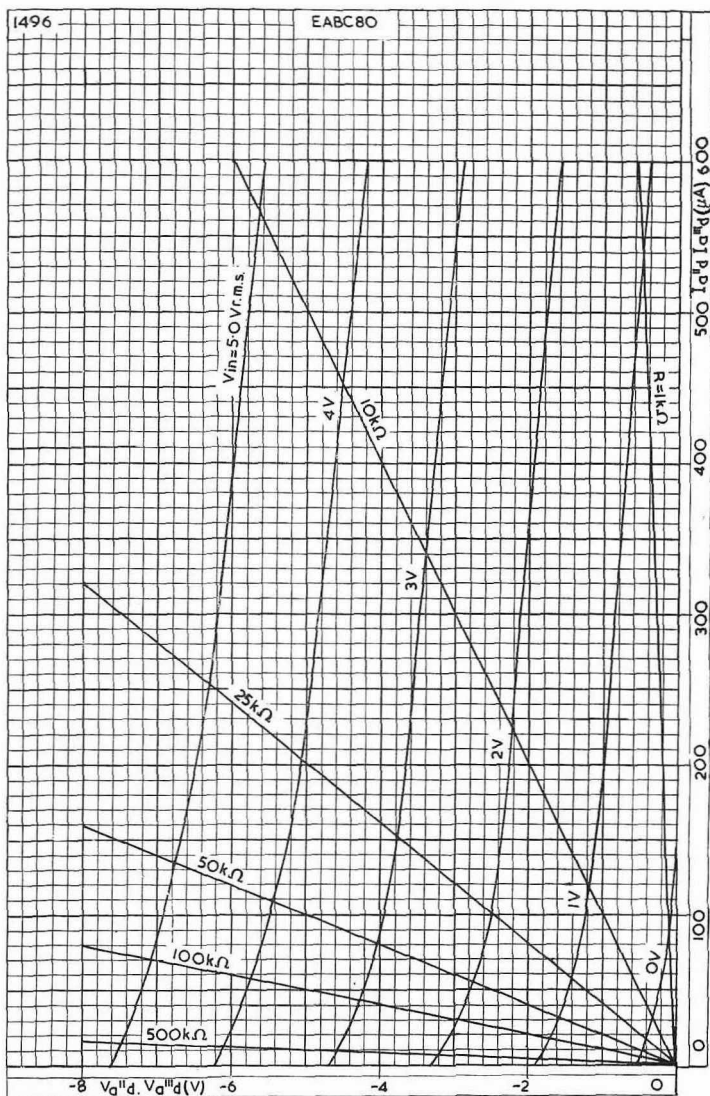


RECTIFIED CURRENT PLOTTED AGAINST OUTPUT VOLTAGE WITH INPUT VOLTAGE BETWEEN $5V_{r.m.s.}$ AND $50V_{r.m.s.}$ AS PARAMETER FOR DIODE SECTION a_d

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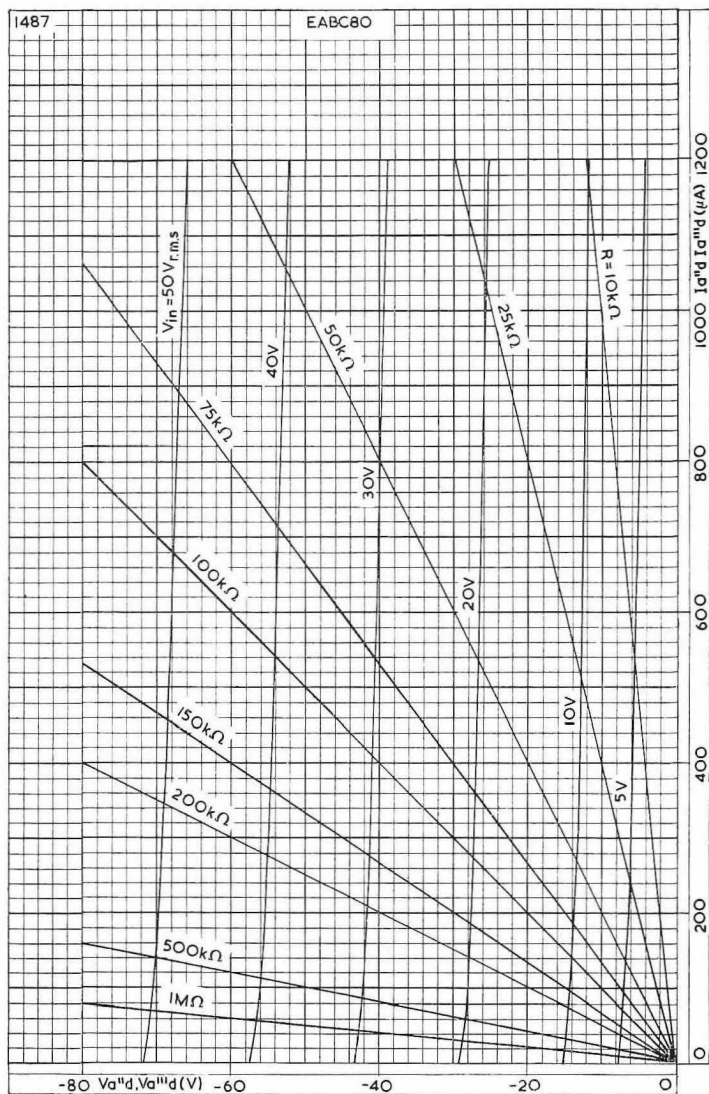


RECTIFIED CURRENT PLOTTED AGAINST OUTPUT VOLTAGE WITH INPUT VOLTAGE BETWEEN 0 AND 5V_{r.m.s.} AS PARAMETER FOR DIODE SECTIONS a''_d AND a'''_d

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RECTIFIED CURRENT PLOTTED AGAINST OUTPUT VOLTAGE WITH INPUT VOLTAGE BETWEEN $5V_{r.m.s.}$ AND $50V_{r.m.s.}$ AS PARAMETER FOR DIODE SECTIONS a''_d AND a'''_d