

—Standard Valves—

VALVE TYPE 3A/101-B

(Previously coded VLS.350 valve).

TRIODE.

SPECIFICATION.

Cathode.

Indirectly heated oxide coated.
Constant current type.

Base.

Standard British 5-pin.

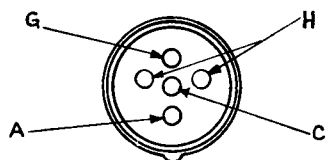
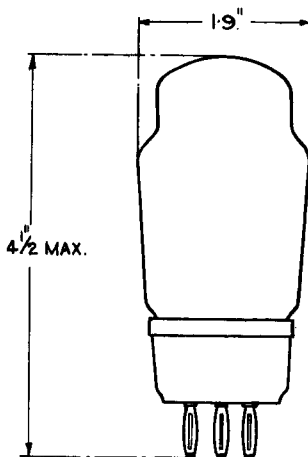
Dimensions.

Maximum overall length $4\frac{1}{2}$ " (11.4 cms.)
Bulb diameter 1.9" (4.9 cms.)
Net weight 0.11 lb. (50 gms.)

Constants.

Heater current 1.0 amps.
Nominal heater voltage 4.5 volts
*Impedance 5,700 ohms.
*Amplification factor 5.8
*Mutual conductance 1.0 mA per volt
Anode-grid capacity 4.2 $\mu\mu\text{F}$.
Grid-cathode capacity 4.2 $\mu\mu\text{F}$.
Anode-cathode capacity 4.4 $\mu\mu\text{F}$.

* at $V_p = 130$ volts, $V_g = -9$ volts.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage	200 volts
Maximum anode dissipation	5 watts

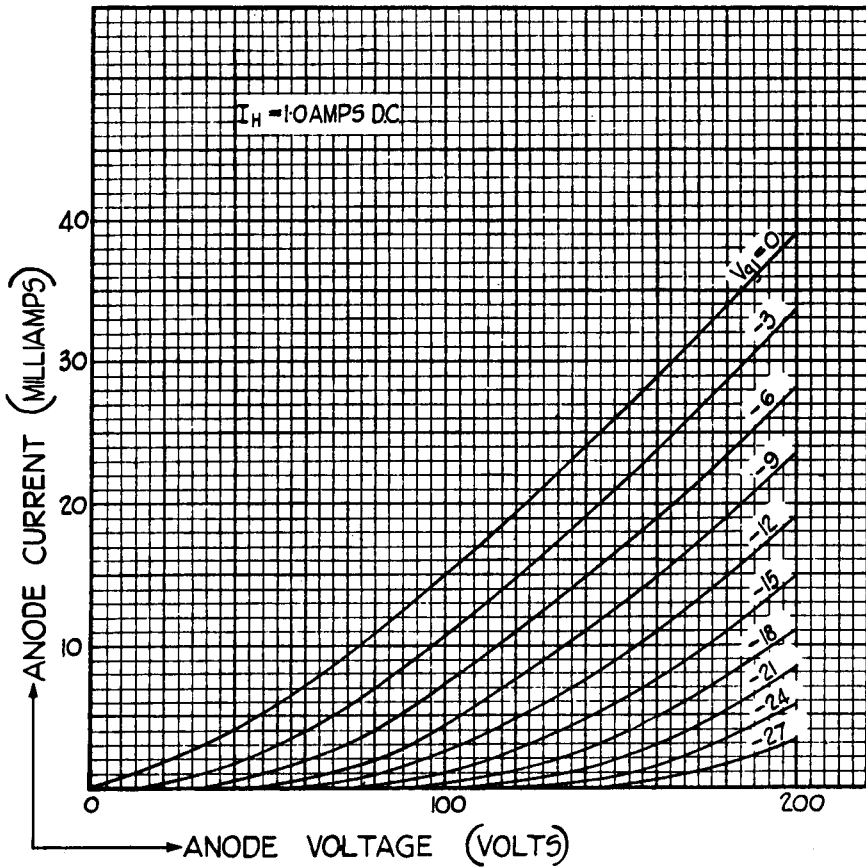
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TYPICAL OPERATING CONDITIONS.

Anode voltage	volts	100	130	130	130	160	160	160	160	190	190
Grid bias	volts	-4	-6	-9	-12	-10	-12	-16	-16	-16	-18
Anode current	mA.	10	13	9.5	6.2	14	11	6.8	12	9.5	8
Anode resistance	Z_o	5,000	5,000	5,700	6,500	5,000	5,500	6,500	5,000	5,300	6,000
For load resistance, $R_L = Z_o$											
Output	mW.	14	35	65	90	100	130	175	235	265	285
Total harmonic distortion	db	38	35	29	22	30	22	20	22	20	18
For load resistance, $R_L = 2 Z_o$											
Output	mW.	12	30	60	80	90	115	155	210	235	250
Total harmonic distortion	db.	35	37	32	26	33	28	23	27	25	22

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Tentative data

W.3A/101-B.2
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