



Repeater Triode

3A/142A

Replaces 4102D

(3A/142AY is the 3A/142A tested to special limits for replacement purposes only)

CATHODE.

Oxide-coated filament

Current	1.0	A
Nominal voltage	4.5	V

RATING.

Amplification factor	} Measured at Va 130V, Vg — 1.5V }	30	Ω
Impedance		60,000	

DIRECT INTER-ELECTRODE CAPACITIES.

Grid to anode	7.6	pF
Grid to filament	5.5	pF
Anode to filament	5.0	pF

DIMENSIONS.

Maximum overall length	118	mm.
Maximum bulb diameter	46	mm.
Base American medium 4 pin bayonet		
Net weight	60	g.

MAXIMUM RATINGS.

Maximum direct anode voltage	190	V
Maximum direct anode current	1.5	mA

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TYPICAL OPERATING CONDITIONS.

Anode voltage volts	Grid Bias volts	Anode current milli-amps	Amplification factor	Anode resistance ohms ra	Load resistance R	Output voltage peak volts	Second harmonic db
130	-2.0	0.36	29.4	80,000	R=ra	27	20
					R=3ra	38	24
					R=5ra	41	25
130	-1.5	0.58	29.8	63,000	R=ra	20	26
					R=3ra	30	31
					R=5ra	34	33
130	-1.0	0.85	30.1	53,000	R=ra	15	33
					R=3ra	20	39
					R=5ra	23	40
160	-3.0	0.34	29.2	81,000	R=ra	40	18
					R=3ra	57	21
					R=5ra	62	22
160	-2.0	0.80	29.9	54,000	R=ra	28	27
					R=3ra	42	33
					R=5ra	45	34
160	-1.0	1.45	30.3	42,000	R=ra	15	38
					R=3ra	21	43
					R=5ra	24	48
190*	-3.0	0.83	29.8	54,000	R=ra	42	23
					R=3ra	63	28
					R=5ra	68	30
190*	-2.0	1.46	30.2	43,000	R=ra	30	31
					R=3ra	43	38
					R=5ra	48	41

* Maximum operating conditions.

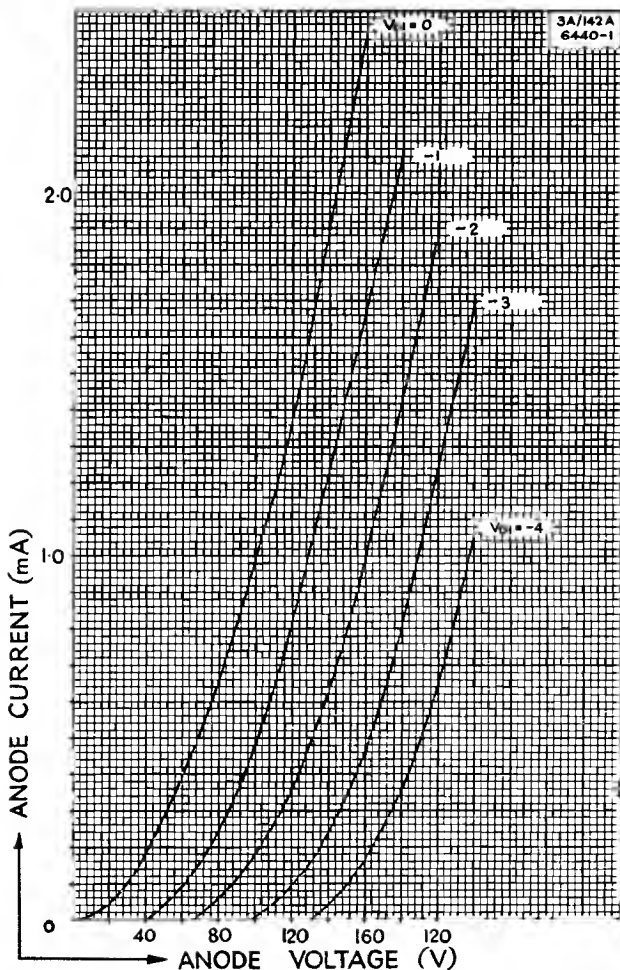


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