



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	30	Ω
Impedance			
	} $V_a 130V, V_g -1.5V$ }		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 r_a	Load resistance R	Output voltage peak volts	Second harmonic db
130	—2.0	0.36	29.4	80,000	$R=r_a$	27	20
					$R=3r_a$	38	24
					$R=5r_a$	41	25
130	—1.5	0.58	29.8	63,000	$R=r_a$	20	26
					$R=3r_a$	30	31
					$R=5r_a$	34	33
130	—1.0	0.85	30.1	53,000	$R=r_a$	15	33
					$R=3r_a$	20	39
					$R=5r_a$	23	40
160	—3.0	0.34	29.2	81,000	$R=r_a$	40	18
					$R=3r_a$	57	21
					$R=5r_a$	62	22
160	—2.0	0.80	29.9	54,000	$R=r_a$	28	27
					$R=3r_a$	42	33
					$R=5r_a$	45	34
160	—1.0	1.45	30.3	42,000	$R=r_a$	15	38
					$R=3r_a$	21	43
					$R=5r_a$	24	48
190*	—3.0	0.83	29.8	54,000	$R=r_a$	42	23
					$R=3r_a$	63	28
					$R=5r_a$	68	30
190*	—2.0	1.46	30.2	43,000	$R=r_a$	30	31
					$R=3r_a$	43	38
					$R=5r_a$	48	41

* Maximum operating conditions.

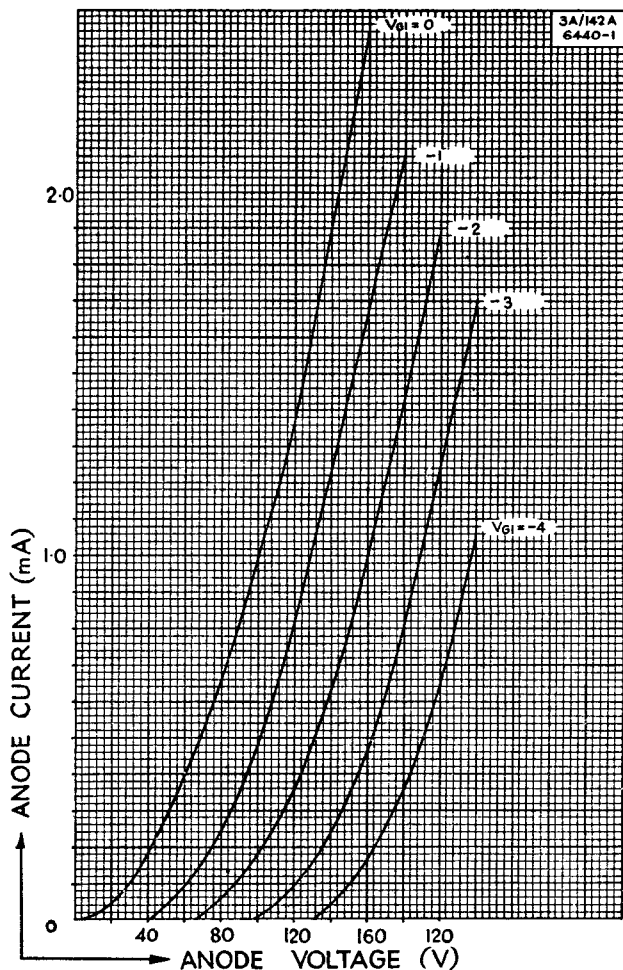


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