



# 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	$\Omega$
Impedance			

#### 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.

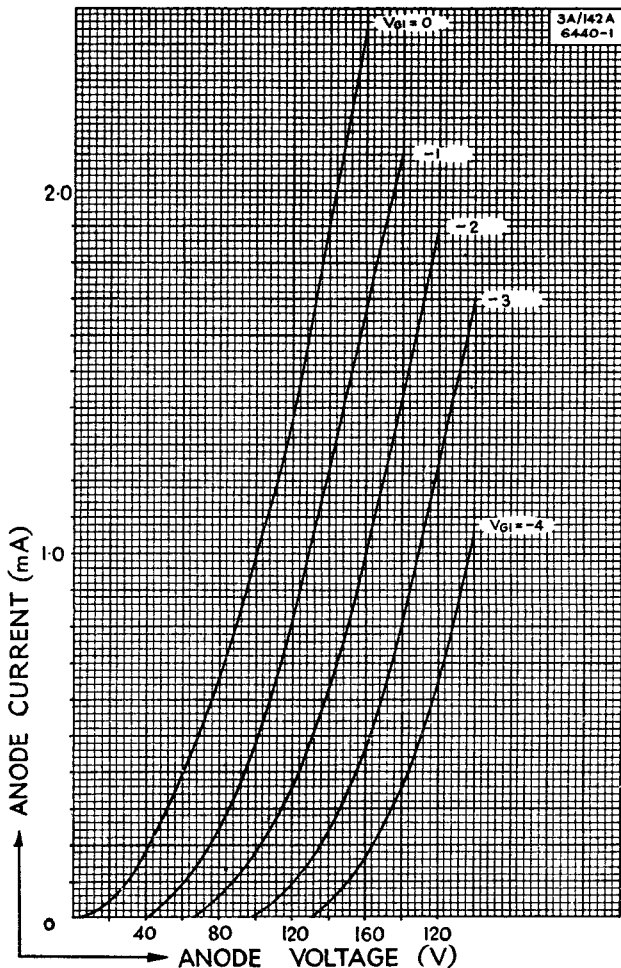


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