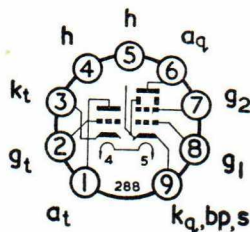


TRIODE BEAM TETRODE



B9A Base

GENERAL

This triode beam tetrode valve with separate cathodes is an improved 30FL1/PCE800 in which the construction and processing of the beam tetrode and triode have been optimised for use respectively as a sync. separator and line scan oscillator in TV receivers. The triode section has identical characteristics to the 6/30L2/ECC804.

Heater Current	I_h	0.3	A
Heater Voltage	V_h	10.4	V

RATINGS

		Triode	Tetrode	
Maximum Anode Dissipation	$P_a(\text{max})$	2.0	3.0	W
Maximum Screen Grid Dissipation	$P_{g2}(\text{max})$	—	1.0	W
Maximum Anode Voltage	$V_a(\text{max})$	250	250	V
Maximum Screen Grid Voltage	$V_{g2}(\text{max})$	—	250	V
Maximum Heater to Cathode Voltage (R.M.S.)	$V_{h-k}(\text{r.m.s.})_{\text{max}}$	150*	150*	V

* Measured with respect to the higher potential heater pin.

INTER-ELECTRODE CAPACITANCES

	$\dagger$	$\S$	$\ddagger$	
Grid 1 to Earth	C_{g1-E}	7.8	8.0	9.1 pF
Anode Tetrode to Earth	C_{aq-E}	2.4	2.7	3.8 pF
Grid 1 to Anode Tetrode	C_{g1-aq}	0.033	0.047	0.075 pF
Grid Triode to Earth	C_{gt-E}	2.2	2.45	3.25 pF
Anode Triode to Earth	C_{at-E}	2.1	2.3	3.0 pF
Grid Triode to Anode Triode	C_{gt-at}	2.3	2.4	2.7 pF
Grid 1 to Anode Triode	C_{g1-at}	0.0065	0.016	0.03 pF
Grid Triode to Anode Tetrode	C_{gt-aq}	0.0073	0.012	0.015 pF
Anode Tetrode to Anode Triode	C_{aq-at}	0.035	0.043	0.046 pF
Grid 1 to Grid Triode	C_{g1-gt}	0.002	0.0055	0.0094 pF

$\dagger$ In fully shielded socket without can.

$\S$ With holder capacitance balanced out.

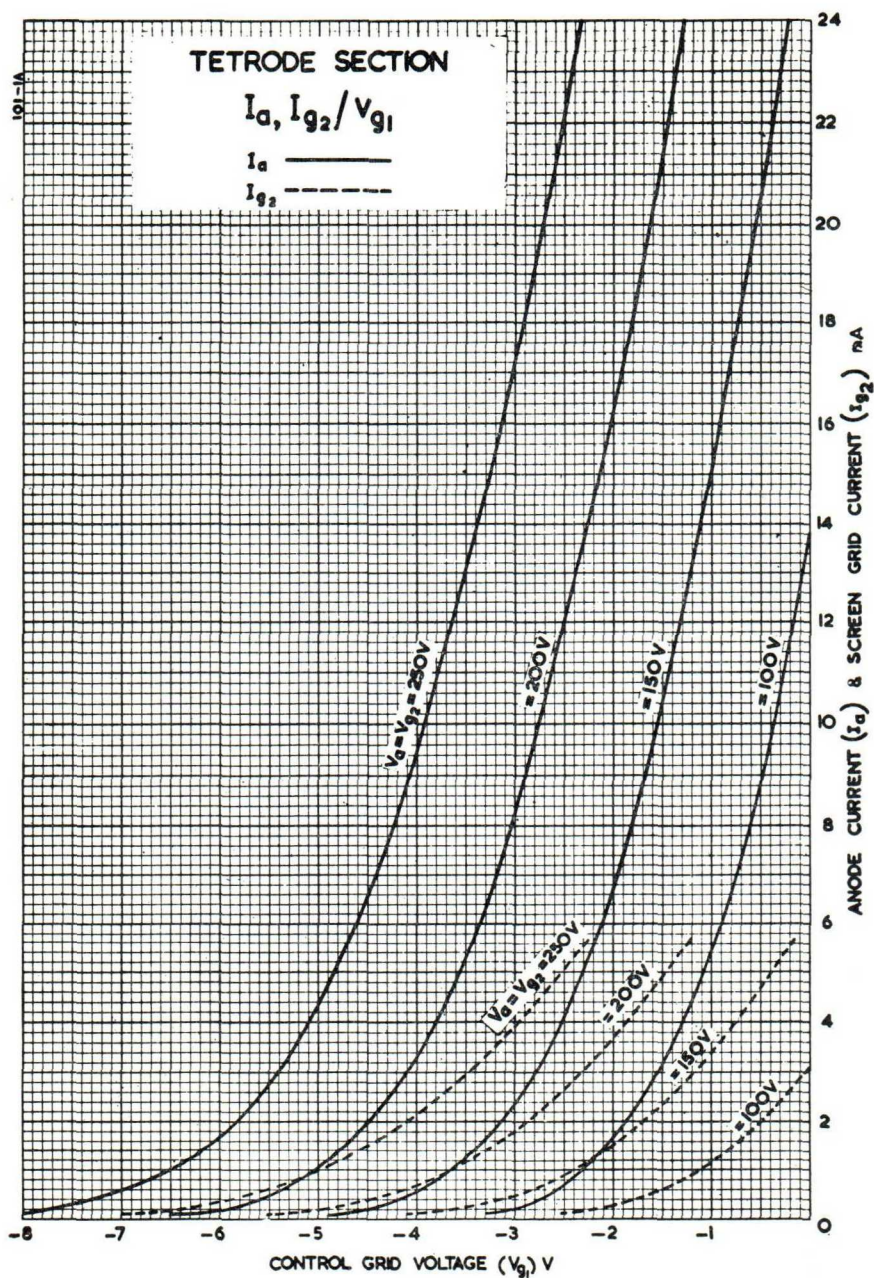
$\ddagger$ Total capacity including B9A nylon phenolic holder without skirt or radial shield.

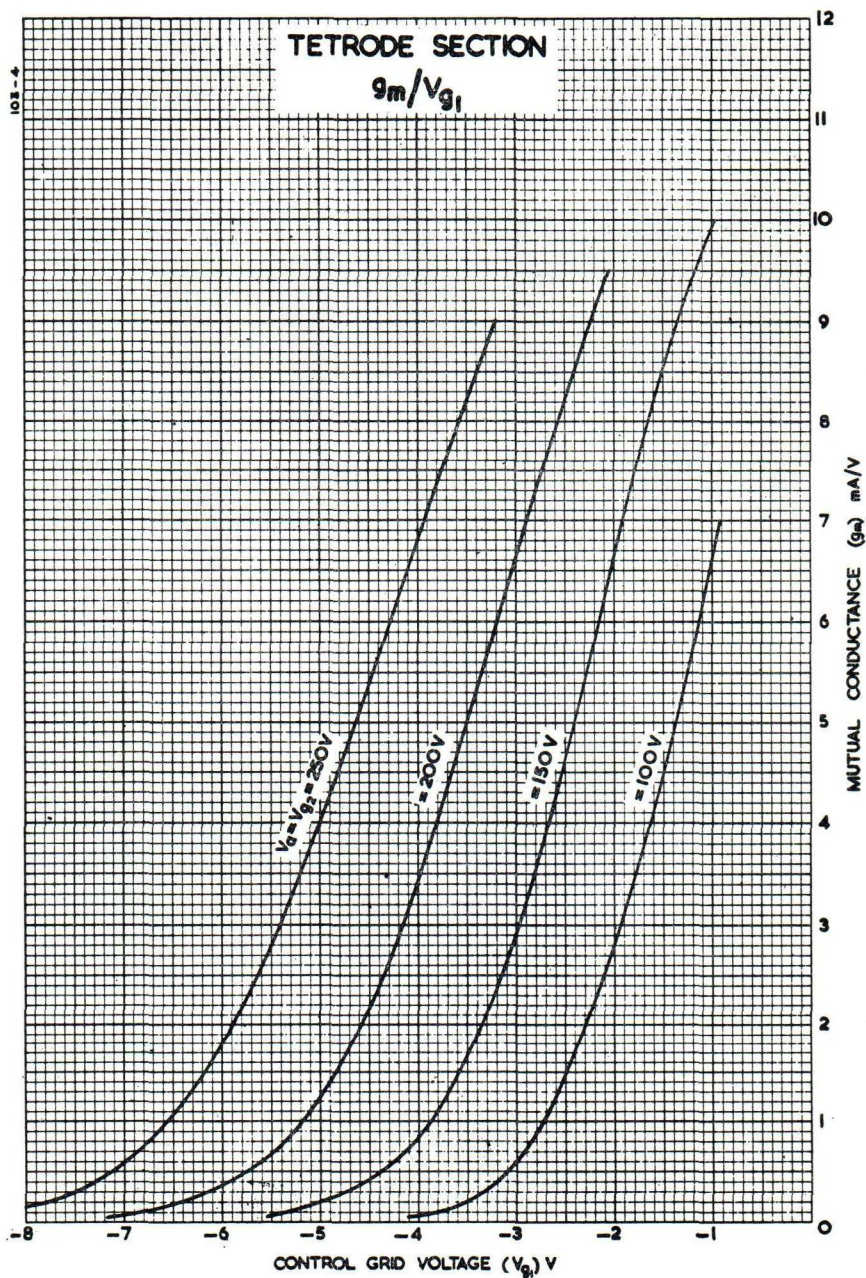
"Earth" denotes the electrodes of any second valve section and the remaining earthy potential electrodes of the section under measurement, heater and shields joined to cathode.

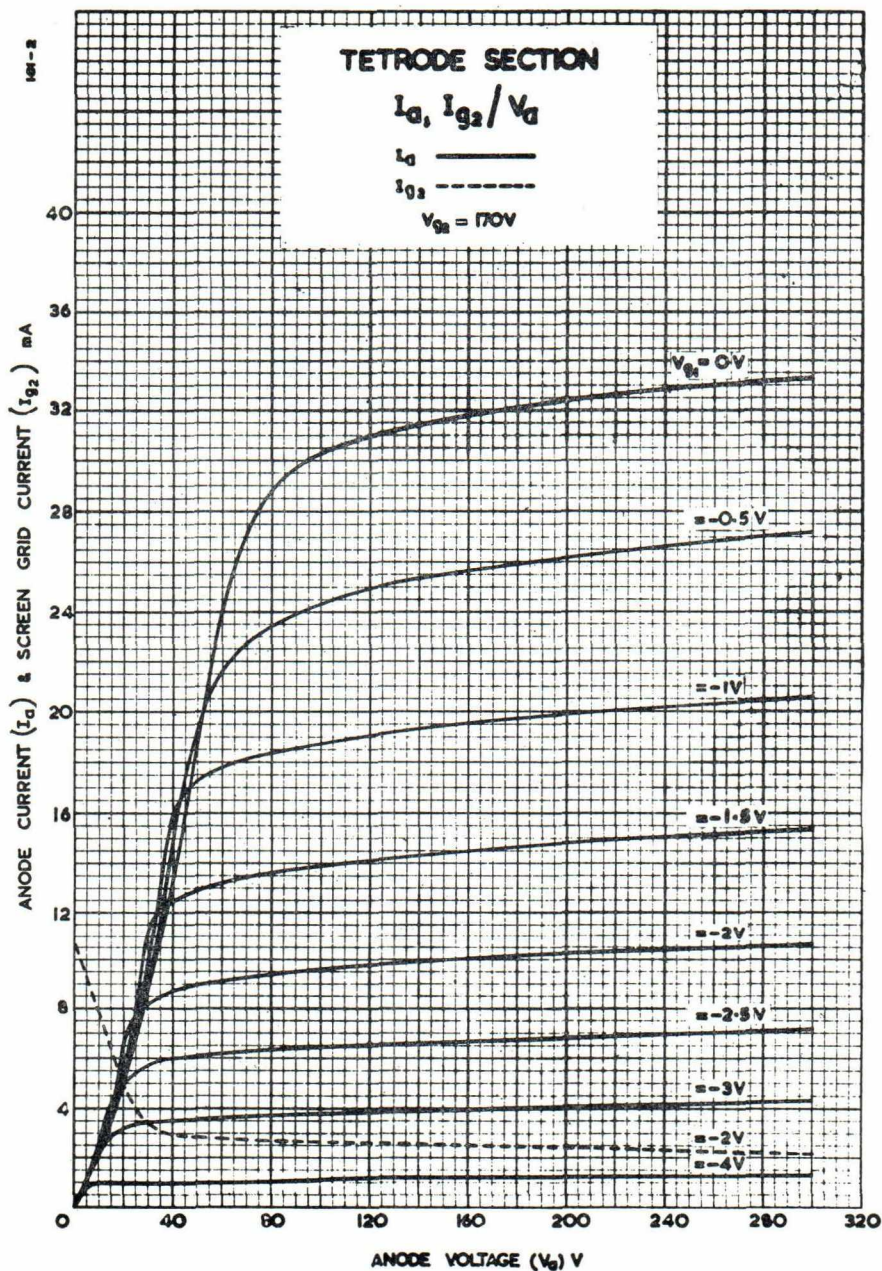
CHARACTERISTICS

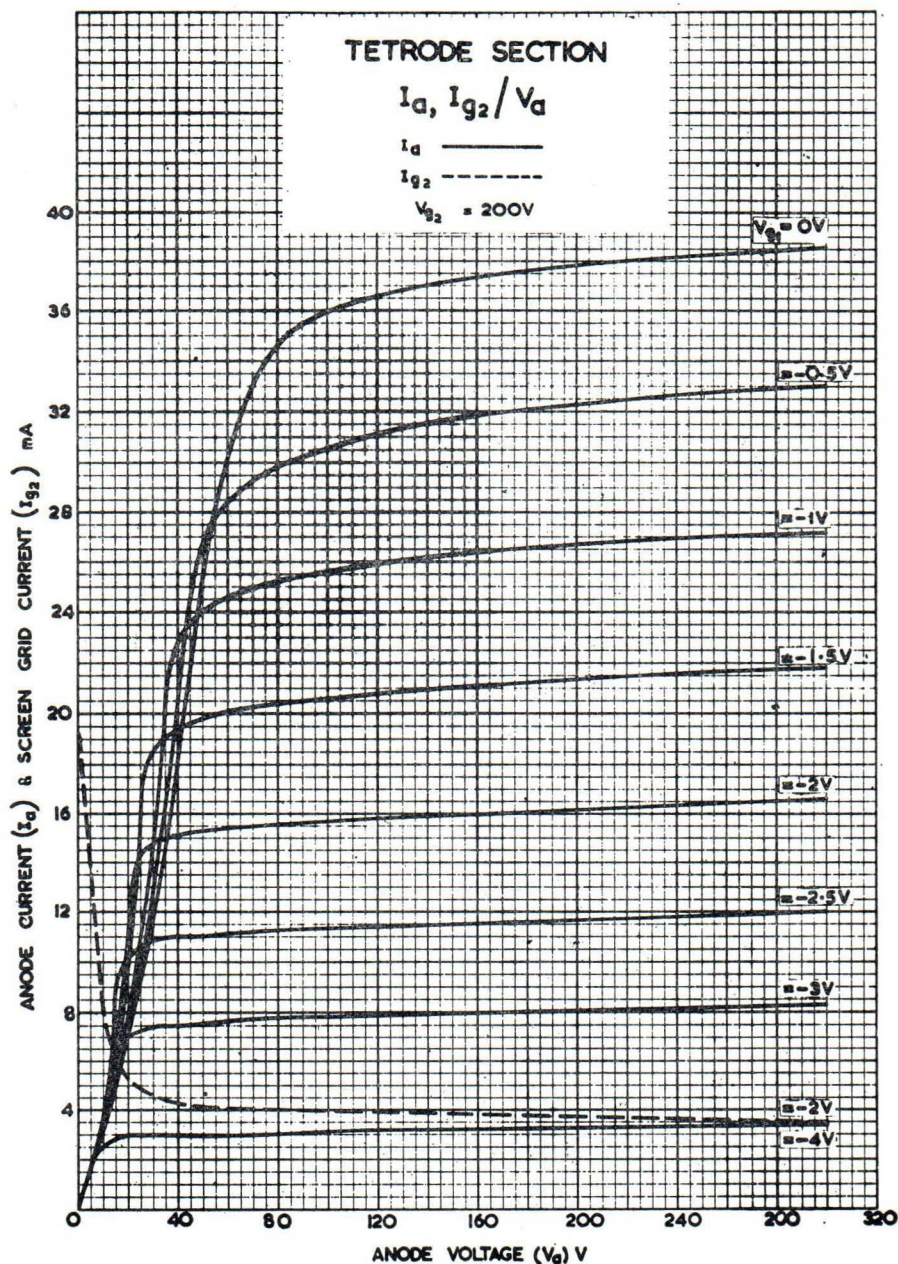
		Triode	Tetrode	
Anode Voltage	V_a	200	170	V
Screen Grid Voltage	V_{g2}	—	170	V
Control Grid Voltage	V_{g1}	-7.7	-2.0	V
Anode Current	I_a	10	10	mA
Screen Grid Current	I_{g2}	—	2.5	mA
Mutual Conductance	g_m	3.4	8.0	mA/V
Amplification Factor	μ	18	—	
Inner Amplification Factor	μ_{g1-g2}	—	44	

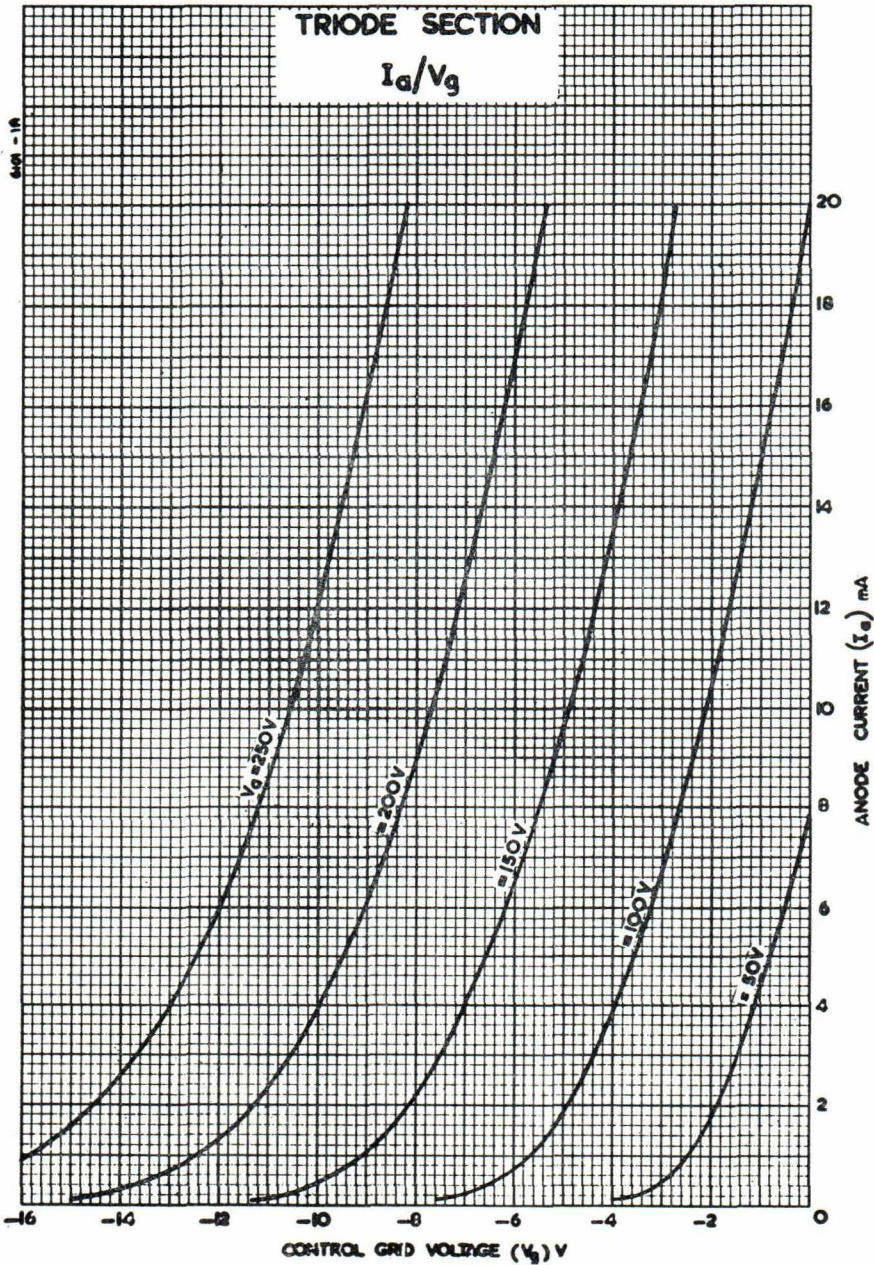
MOUNTING POSITION—Unrestricted.

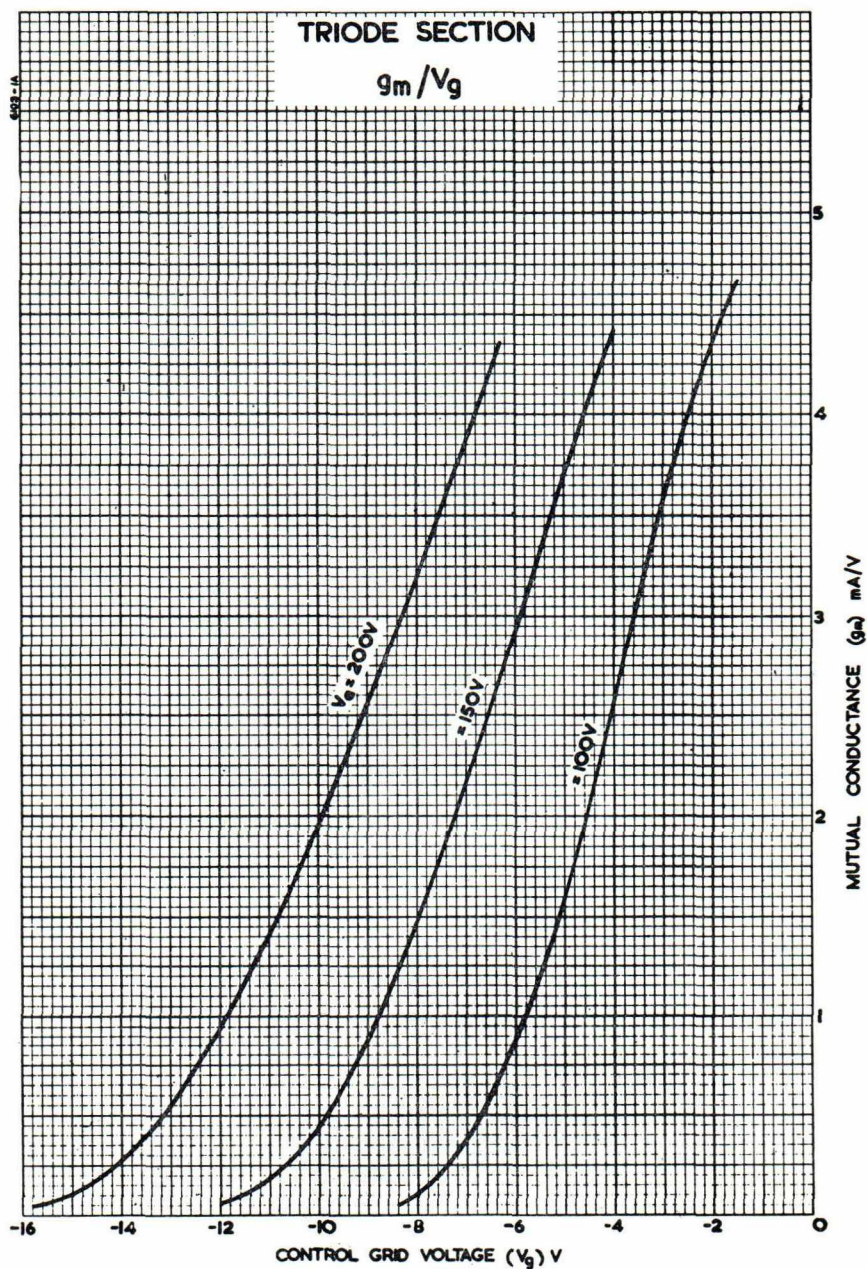












TETRODE SECTION

Used as limiter in a synchronising separator circuit.

