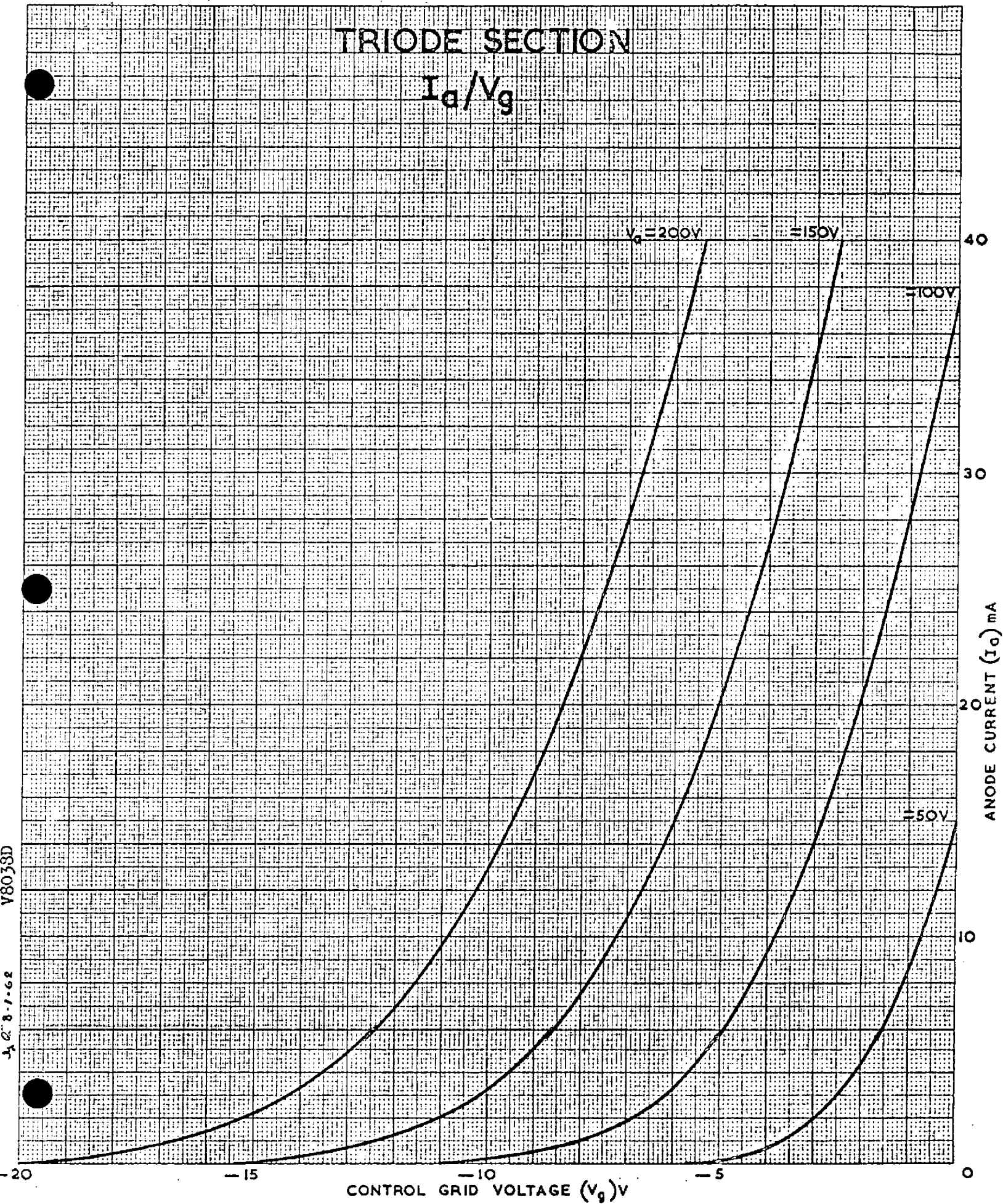


7GV7/ 6GV7		GENERAL	V.H.F. TRIODE PENTODE	
<p>This triode and variable mu pentode valve combination, with the pentode of frame grid construction, is for use in television tuners. It is primarily intended to be used as a variable gain V.H.F. frequency changer with the triode as local oscillator but the pentode is also designed for use as a high gain controlled I.F. amplifier following a U.H.F. tuner.</p>				
Heater Current I_h 0.3 A		RATINGS	Heater Voltage V_h 7.4 V	
Maximum Anode Dissipation		$P_a(\max)$	2	2 W
Maximum Screen Grid Dissipation		$P_{g2}(\max)$	0.5	- W
Maximum Anode Voltage		$V_a(\max)$	250	250 V
Maximum Screen Grid Voltage		$V_{g2}(\max)$	230	- V
Maximum Heater to Cathode Voltage (RMS)		$V_{h-k}(\text{r.m.s.})\max.$	200	200 V
Maximum Cathode Current		$I_k(\max)$	18	15 mA
Maximum Grid to Cathode Resistance (Fixed Bias)		$R_{g1}(\max)$	250	500 kΩ
CAPACITANCES pF		MECHANICAL DATA		BASE † B9A CAP -
<p>* $g1/\text{all}$ 6.7 ap/all 2.7 $g1/ap$.007 at/E 2.2 gt/E 2.4 ap/gt .001 gt/at 2.0 ap/at .014 $g1/gt$.008 $E1/at$.002</p>		<p>Maximum Dimensions mm. Overall length 56 Seated height 49 Diameter 22.2</p> <p>Mounting Position Unrestricted</p>		
CHARACTERISTICS.				
Anode Voltage		V_a	125	100 V
Screen Grid Voltage		V_{g2}	125	- V
Control Grid Voltage		V_{g1}	-1.5	-3 V
Anode Current		I_a	10	14 mA
Screen Grid Current		I_{g2}	3.1	- mA
Mutual Conductance		S_m	11	5.5 mA/V
Amplification Factor		μ	-	17
Inner Amplification Factor		μ_{g1-g2}	50	-
Notes.				
† Shield completely surrounds pentode.				
Basing arranged to minimise pentode cathode lead inductance effects with the shorter lead to pin 8.				
* In fully shielded socket with can. (I.E.C. Publication 100)				
§ The 6GV7 is identical with the 7GV7 with the exception of the heater ratings, which are 6.3 volts, 0.35 ampere.				
This valve performs the same function as the 30C17 but the basing has been changed to suit certain tuners.				

TRIODE SECTION

I_a/V_g



V8038D

1.0-3-1-62

-20

-15

-10

-5

0

40

30

20

10

0

