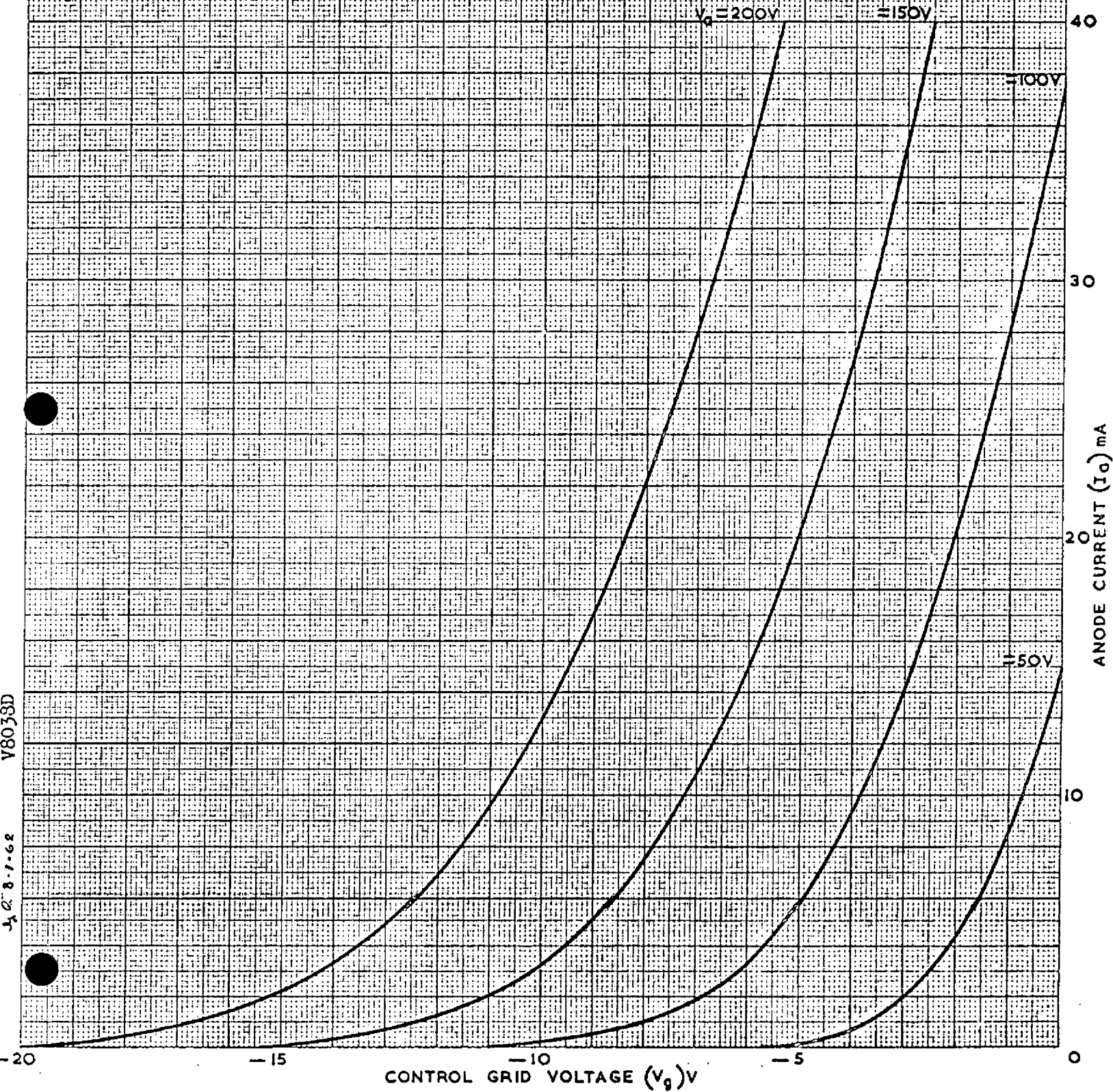


7GV7/ 6GV7		GENERAL		V.H.F. TRIODE PENTODE	
This triode and variable mu pentode valve combination, with the pentode of frame grid construction, is for use in television tuners. It is primarily intended to be used as a variable gain V.H.F. frequency changer with the triode as local oscillator but the pentode is also designed for use as a high gain controlled I.F. amplifier following a U.H.F. tuner.					
Heater Current I_h 0.3 A		RATINGS		Heater Voltage V_h 7.4 V	
				Pentode	Triode
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)		$V_{h-k(r.m.s.)\max}$	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 -
g1/all 6.7		The symbol E denotes the electrodes of any second valve section and the remaining earthy potential electrodes of the section under measurement hgm joined to cathode unless otherwise stated. Measurement with valve cold.	Maximum Dimensions mm.		h 4 5 6 kt, kp s, g3 ap 3 7 g1 g2 2 8 kp, kt s, g3 at 1 9 gt 430 9KV
ap/all 2.7			Overall length 56		
g1/ap .007			Seated height 49		
at/E 2.2			Diameter 22.2		
gt/E 2.4			Mounting Position		
ap/gt .001			Unrestricted		
gt/at 2.0					
ap/at .014					
g1/gt .008					
g1/at .002					
CHARACTERISTICS.				Pentode	Triode
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 

PENTODE SECTION

 $I_a, I_{g2} / V_{g1}$ I_a ———
 I_{g2} - - - -V8038D
A. Q. U. I. G.