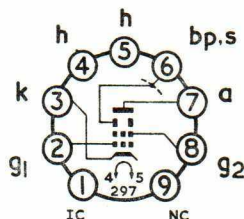


HIGH SLOPE BEAM TETRODE



B9A Base

GENERAL

This valve is a high slope beam tetrode intended for use in the video output stages of A.C. or A.C./D.C. mains television receivers. The characteristics are identical to those of the tetrode section of the 30FL12.

Heater Voltage	V_h	6.3	V
Heater Current	I_h	0.3	A

RATINGS

Maximum Anode Dissipation	$P_a(\text{max})$	2.5	W
Maximum Screen Grid Dissipation	$P_{g2}(\text{max})$	1.3	W
Maximum Anode Voltage	$V_a(\text{max})$	250	V
Maximum Screen Grid Voltage	$V_{g2}(\text{max})$	250	V
Maximum Heater to Cathode Voltage (R.M.S.)	$V_{h-k(r.m.s.)\text{max}}$	150*	V

* Measured with respect to the higher potential heater pin.

INTER-ELECTRODE CAPACITANCES

	C_{in}	C_{out}	C_{g1-a}	pF
Grid 1 to Earth	8.1	2.6	0.03	
Anode to Earth	8.5	2.9	0.034	
Grid 1 to Anode	9.6	4.0	0.036	

† In fully shielded socket without can.

‡ With holder capacitance balanced out. (Holder as below.)

§ Total capacitance including B9A nylon phenolic holder without skirt or radial shield. (AEI holder type VH19/902.)

"Earth" denotes the remaining earthy potential electrodes, heater and shields joined to cathode.

CHARACTERISTICS

Anode Voltage	V_a	180	V
Screen Grid Voltage	V_{g2}	180	V
Anode Current	I_a	10	mA
Mutual Conductance	g_m	12.5	mA/V

TYPICAL OPERATION—Video Amplifier

The stage should be designed to allow for valve spread and deterioration during life in addition to component variations. Values of peak anode current available for a new average valve and at the assumed end of life point for any valve are as follows:

	V_a	V_{g2}	V_{g1}	I_a	mA
Anode Voltage	70	60	—1	40	
Screen Grid Voltage	180	180	—1	25	
Grid Bias Voltage					
Anode Current					

φ Average New Valve.

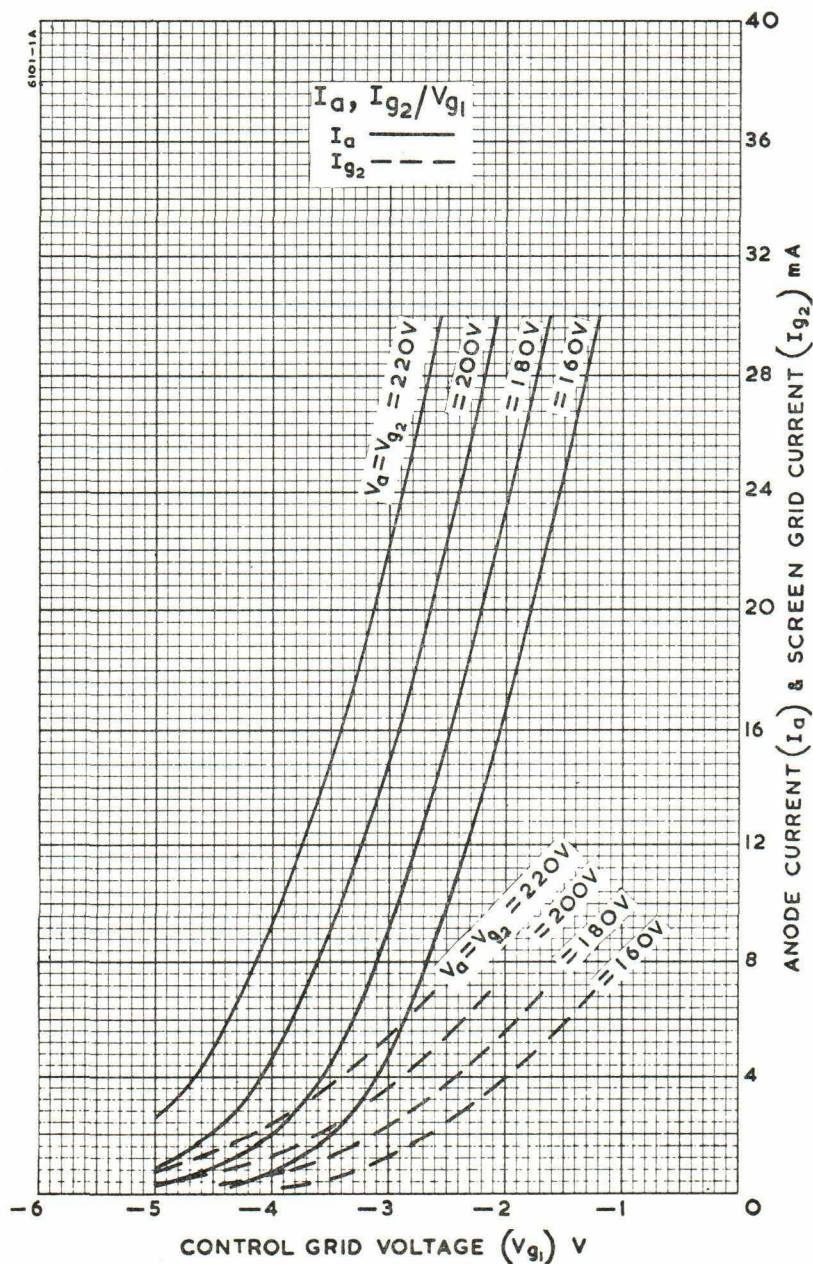
|| Assumed End of Life Condition.

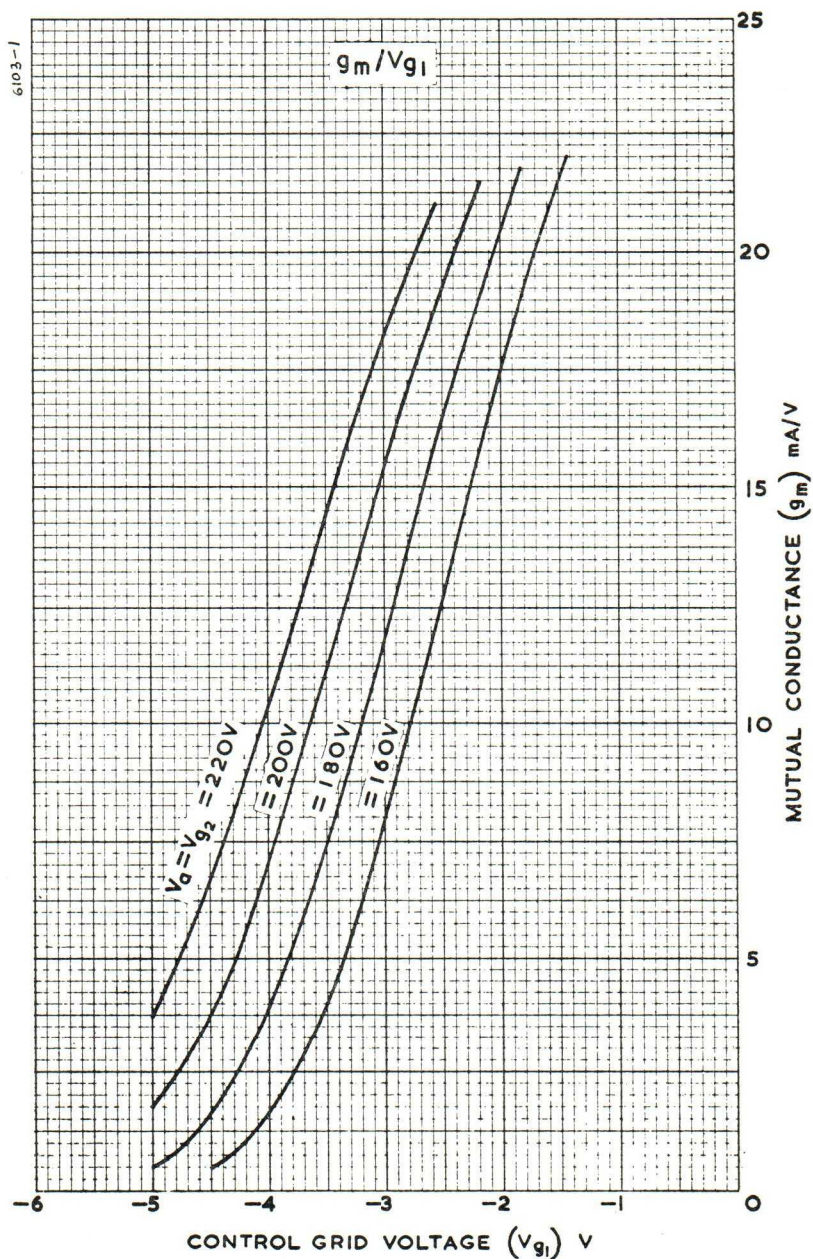
MOUNTING POSITION—Unrestricted

6F28
EE80

VALVES

MAZDA





6F28
EE80

VALVES

MAZDA

