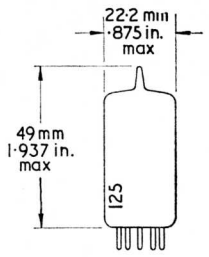
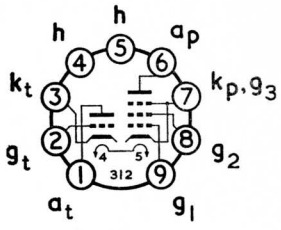


TIME BASE TRIODE PENTODE



B9A Base

GENERAL

This triode pentode is for use in television receivers with the triode as a frame blocking oscillator and the pentode as a frame output valve.

Heater Current	I_h	0·3	A
Heater Voltage	V_h	12·6	V

RATINGS

		Triode	Pentode	
Maximum Anode Dissipation	$P_{a(max)}$	3·5	5·4	W
Maximum Screen Grid Dissipation	$P_{g2(max)}$	—	1·2	W
Speech and Music		—	2·4	W
Maximum Anode Supply Voltage	$V_{a(b)max}$	550	550	V
Maximum Anode Voltage	$V_{a(max)}$	250	250	V
Maximum Peak Positive Anode Voltage	$v_{a(pk)max}$	—	2·0	kV
Maximum Screen Grid Supply Voltage	$V_{g2(b)max}$	—	550	V
Maximum Screen Grid Voltage	$V_{g2(max)}$	—	250	V
Maximum Heater to Cathode Voltage	$V_{h-k(max)}$			
Heater Positive		100	100	V
Maximum Cathode Current	$I_{k(max)}$	15	45	mA
Maximum Control Grid to Cathode Resistance	$R_{g1-k(max)}$			
Self Bias		—	500	kΩ
Fixed Bias		1·0	0·25	MΩ
Grid Current Bias		22	—	MΩ

INTER-ELECTRODE CAPACITANCES

		Triode	Pentode	
Input	c_{in}	2·3	5·7	pF
Output	c_{out}	0·32	4·7	pF
Anode to Control Grid	c_{a-g_1}	1·6	<0·2	pF
Control Grid to Heater	c_{g_1-h}	—	0·4	pF

OPERATING CHARACTERISTICS

		Triode	Pentode	
Anode Voltage	V_a	250	170	V
Screen Grid Voltage	V_{g_2}	—	170	V
Control Grid Voltage	V_{g_1}	−8·5	−9·5	V
Anode Current	I_a	10·5	30	mA
Screen Grid Current	I_{g_2}	—	5·0	mA
Mutual Conductance	g_m	2·2	5·5	mA/V
Valve Anode Resistance ($\delta v_a/\delta i_a$)	r_a	7·7	53	kΩ
Amplification Factor	μ	17	—	
Inner Amplification Factor	$\mu_{g_1-g_2}$	—	10	