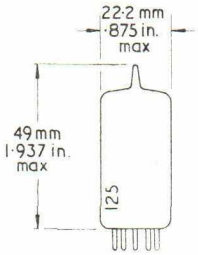
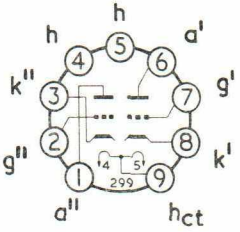


DOUBLE TRIODE



B9A Base

GENERAL

The separate cathode connections and tapped heater features enable this valve to be used in a variety of applications.

Heater Voltage	V_h	6·3	or	12·6 V
Heater Current	I_h	0·3	or	0·15 A

RATINGS

Maximum Anode Dissipation (each section)	$P_{a(max)}$	2·5	W
Maximum Anode Voltage (I_a=0)	$V_{a(b)max}$	550	V
Maximum Anode Voltage	$V_{a(max)}$	300	V
Maximum Cathode Current (each section)	$I_{k(max)}$	20	mA

INTER-ELECTRODE CAPACITANCES *

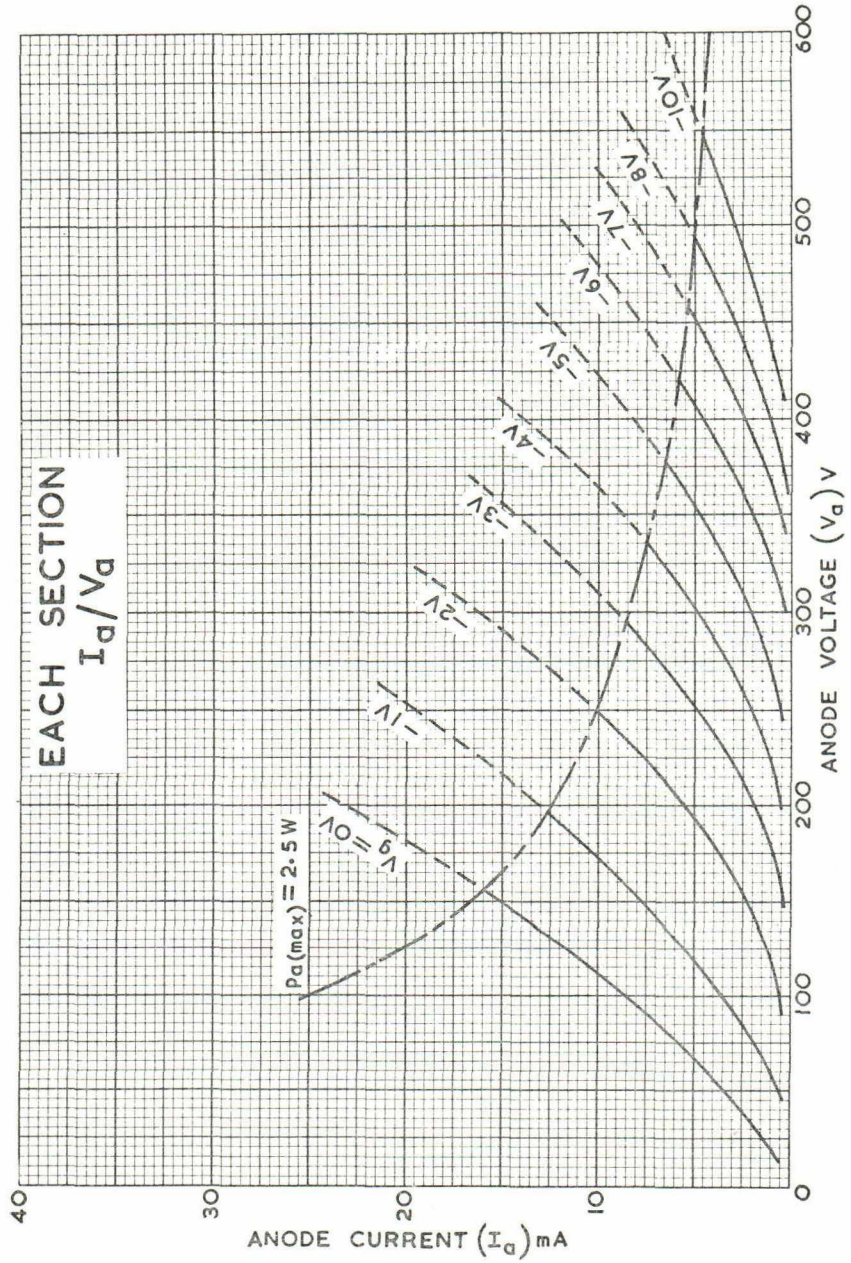
Input′	$c_{in'}$	2·5	pF
Input″	$c_{in''}$	2·5	pF
Output′	$c_{out'}$	0·4	pF
Output″	$c_{out''}$	0·4	pF
Anode′ to Grid′	$c_{a'-g'}$	1·5	pF
Anode″ to Grid″	$c_{a''-g''}$	1·5	pF
Cathode′ to Heater	$c_{k'-h}$	2·5	pF
Cathode″ to Heater	$c_{k''-h}$	2·5	pF
Grid′ to Grid″	$c_{g'-g''}$	<0·005	pF
Anode′ to Anode″	$c_{a'-a''}$	<0·4	pF

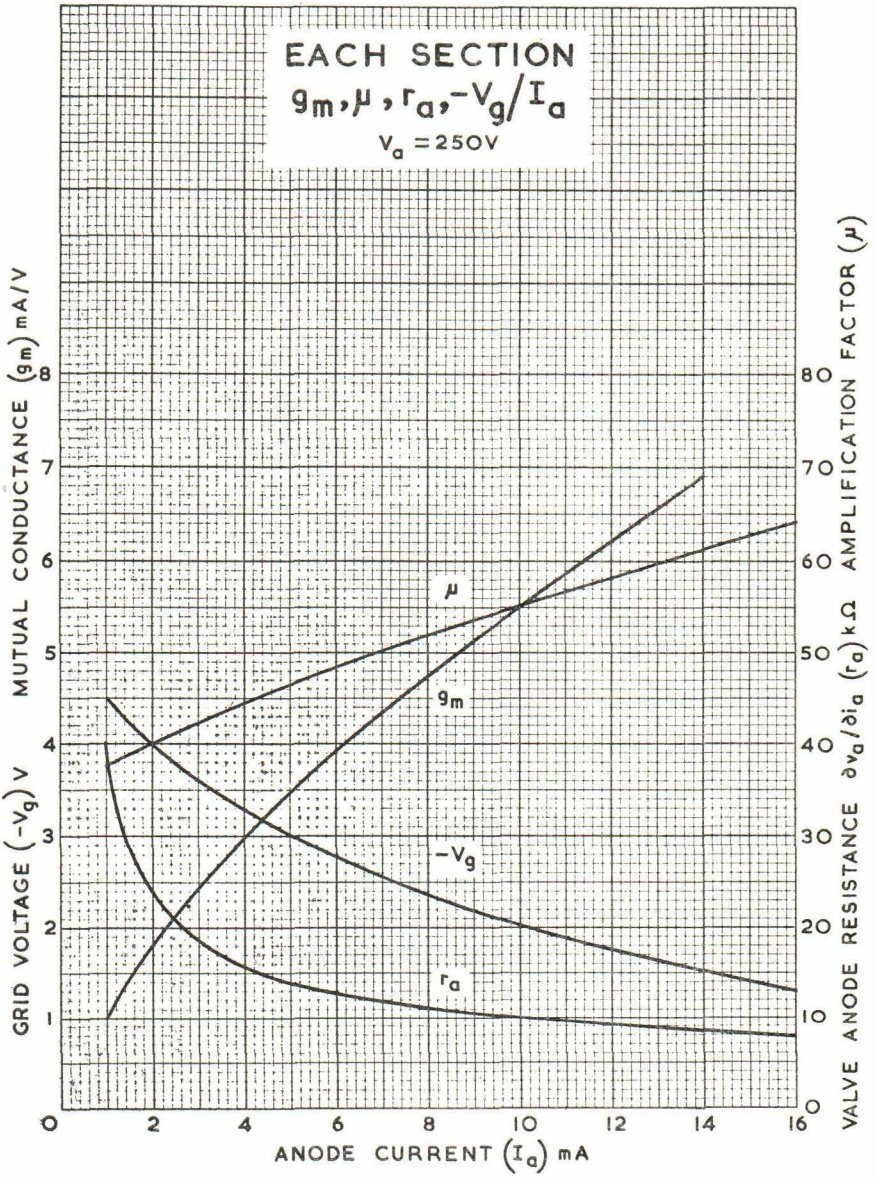
* Measured without an external shield.

CHARACTERISTICS (Each Section—Class A)

Anode Voltage	V_a	100	180	250	V
Anode Current	I_a	3·7	11	10	mA
Grid Voltage	V_g	−1·0	−1·0	−2·0	V
Valve Anode Resistance ($\delta v_a/\delta i_a$)	r_a	13·5	9·4	10	kΩ
Mutual Conductance	g_m	4·0	6·6	5·5	mA/V
Amplification Factor	μ	54	62	55	
Grid Voltage for Anode Current cut-off	V_g	−6·0	−8·0	−12	V

MOUNTING POSITION—Unrestricted


EACH SECTION
Ia/Va
Pa(max) = 2·5 W
-10V
-8V
-7V
-6V
-5V
-4V
-3V
-2V
-1V
0V
ANODE VOLTAGE (Va) V
ANODE CURRENT (Ia) mA
0
100
200
300
400
500
600
40
30
20
10


EACH SECTION
$g_m, \mu, r_a, -V_g/I_a$
$V_a = 250V$
GRID VOLTAGE $(-V_g)$ V
MUTUAL CONDUCTANCE (g_m) mA/V
VALVE ANODE RESISTANCE $\partial v_a/\partial i_a$ (r_a) kΩ
AMPLIFICATION FACTOR (μ)
ANODE CURRENT (I_a) mA
μ
g_m
$-V_g$
r_a
0
1
2
3
4
5
6
7
8
10
20
30
40
50
60
70
80
2
4
6
8
10
12
14
16