TUNG-SOL

TRIODE

MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

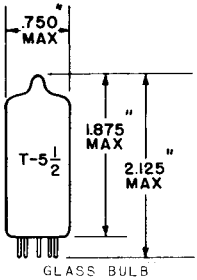
HEATER

6.3 VOLTS 150 MA.

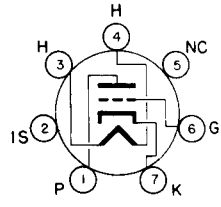
AC OR DC

ANY MOUNTING POSITION

IT IS RECOMMENDED THAT PIN #2 BE GROUNDED.



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2



BOTTOM VIEW
BASING DIAGRAM
JEDEC 5CE

THE 6AB4 IS A TRIODE USING THE MINIATURE CONSTRUCTION. ITS LOW CAPACITANCE AND HIGH RATIO OF PLATE CURRENT TO TRANSCONDUCTANCE ADAPT IT TO USE AS A HIGH FREQUENCY OSCILLATOR AND MIXER AT FREQUENCIES BELOW APPROXIMATELY 300 MC OR AS A GROUNDED GRID RADIO FREQUENCY AMPLIFIER.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD #316	WITHOUT SHIELD	
GRID TO PLATE: (G TO P)	1.5	1.5	pf
INPUT: G TO (H+K)	2.2	2.2	pf
OUTPUT: P TO (H+K)	1.4	0.5	pf
HEATER TO CATHODE: (H+K)	2.9	2.9	pf
GROUNDED GRID			
PLATE TO CATHODE: (P TO K)	0.2	0.24	pf
INPUT: K TO (H+G)	5.2	5	pf
OUTPUT: P TO (H+G)	2.6	1.7	pf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE	-50	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	WATTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

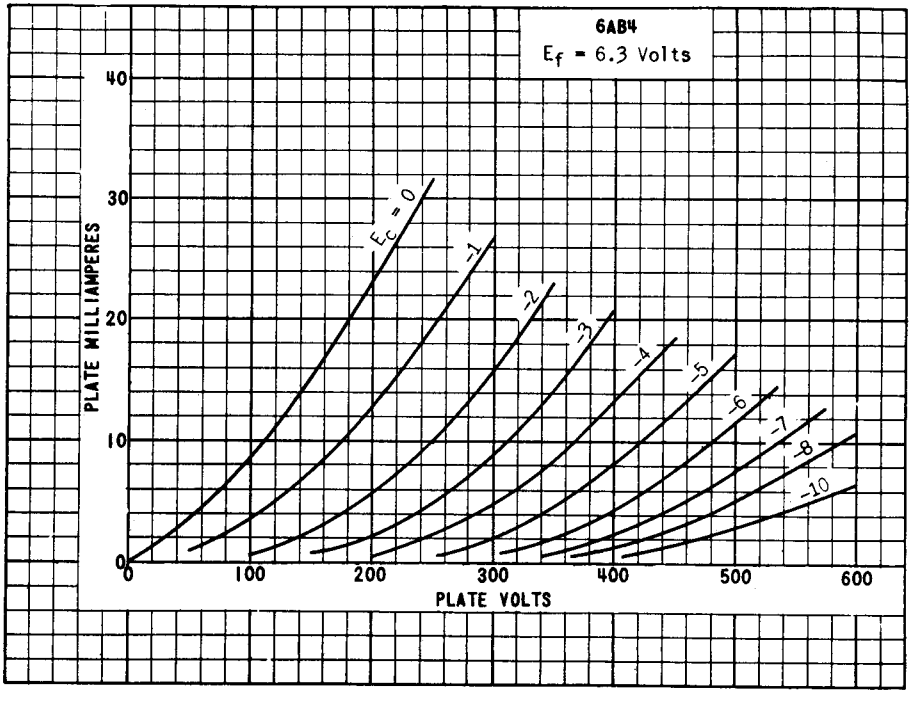
CLASS A_1 AMPLIFIER

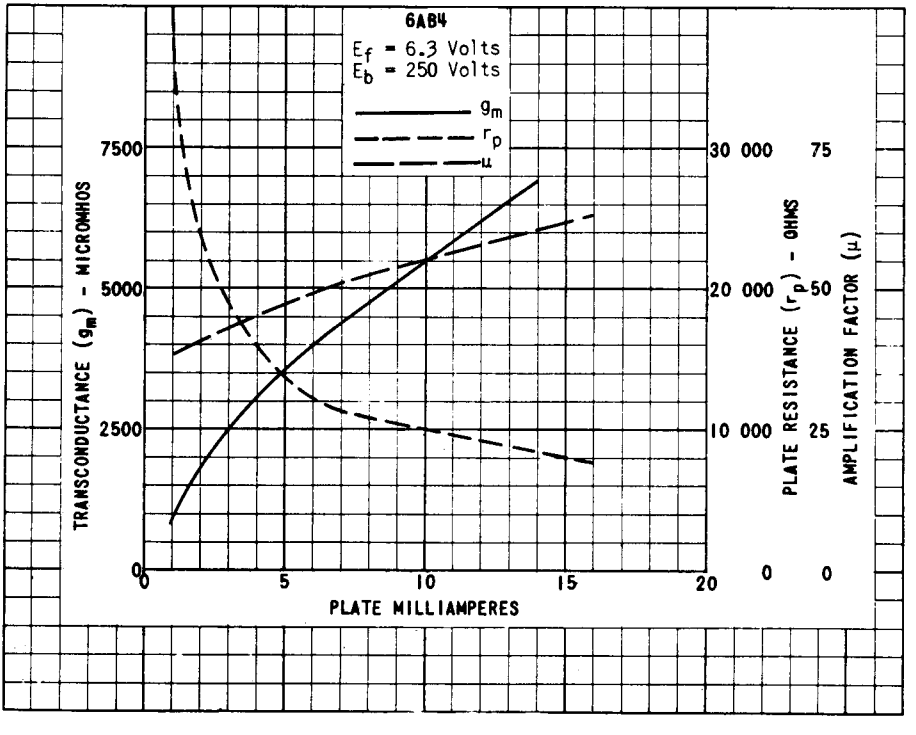
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	150	150	MA.
PLATE VOLTAGE	100	250	VOLTS
CATHODE RESISTOR	270	200	OHMS
PLATE CURRENT	3.7	10	MA.
PLATE RESISTANCE	15 000	10 900	OHMS
TRANSCONDUCTANCE	4 000	5 500	µMHOS
AMPLIFICATION FACTOR	60	60	
GRID VOLTAGE (APPROX.) FOR I_b = 10 µA.	-5	-12	VOLTS

SIMILAR TYPE REFERENCE: Somewhat similar to each unit of type 12AT7.

→ INDICATES A CHANGE.

6AB4


6AB4
E_f = 6.3 Volts
PLATE MILLIAMPERES
PLATE VOLTS
E_c = 0
-1
-2
-3
-4
-5
-6
-7
-8
-10
0
10
20
30
40
0
100
200
300
400
500
600


6AB4
E_f = 6.3 Volts
E_b = 250 Volts
g_m
r_p
μ
TRANSCONDUCTANCE (g_m) - MICROMHOS
PLATE RESISTANCE (r_p) - OHMS
AMPLIFICATION FACTOR (μ)
PLATE MILLIAMPERES
0
2500
5000
7500
0
10 000
20 000
30 000
0
25
50
75
0
5
10
15
20