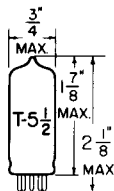


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

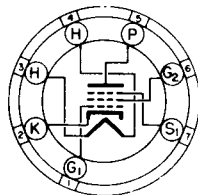
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

7CM

THE 6BJ6, 6BJ6A ARE PENTODE VOLTAGE AMPLIFIERS WITH REMOTE CONTROL CHARACTERISTICS UTILIZING THE MINIATURE CONSTRUCTION. THEY ARE CHARACTERIZED BY HIGH TRANSCONDUCTANCE, LOW GRID-PLATE CAPACITANCE, AND AN EXTREMELY HIGH EFFICIENCY CATHODE ADAPTING THEM TO APPLICATION WHERE CONSERVATION OF HEATER POWER IS IMPORTANT.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD ^A	WITHOUT SHIELD	
GRID TO PLATE: (G TO P) MAX.	0.0035	0.0035	$\mu\mu\text{f}$
INPUT: G_1 TO (H+K+G ₂ +G ₃ +I S)	4.5	4.5	$\mu\mu\text{f}$
OUTPUT: P TO (H+K+G ₂ +G ₃ +I S)	5.5	5.5	$\mu\mu\text{f}$

^A EXTERNAL SHIELD #316 CONNECTED TO PINS #2 AND #7.

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

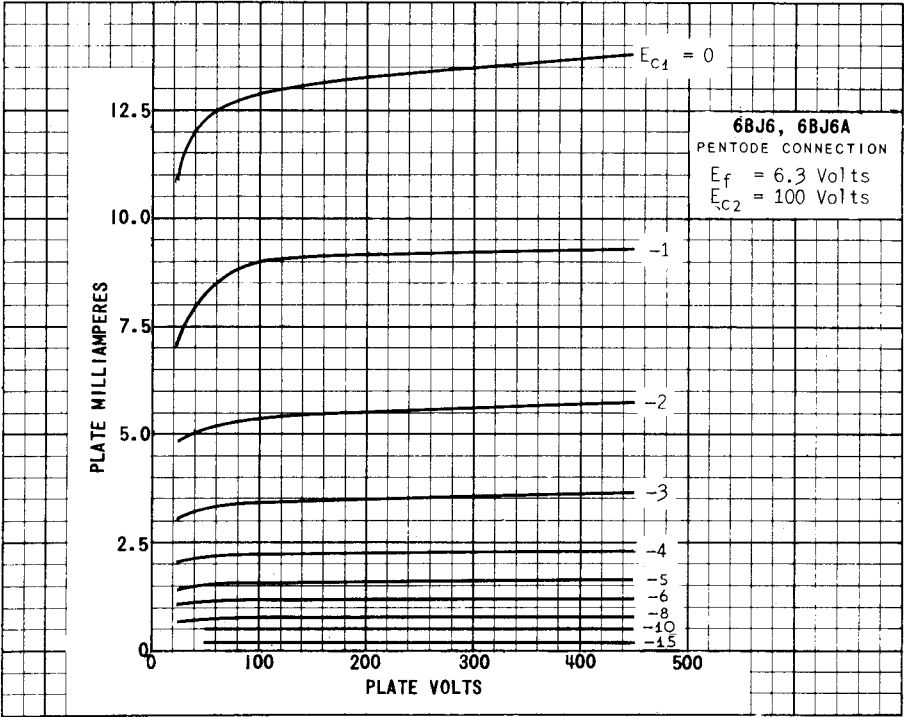
HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	SFE J5-C4	VOLTS
MAXIMUM PLATE DISSIPATION	3.0	WATTS
MAXIMUM GRID #2 DISSIPATION	0.6	WATTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM NEGATIVE DC GRID #1 VOLTAGE	50	VOLTS

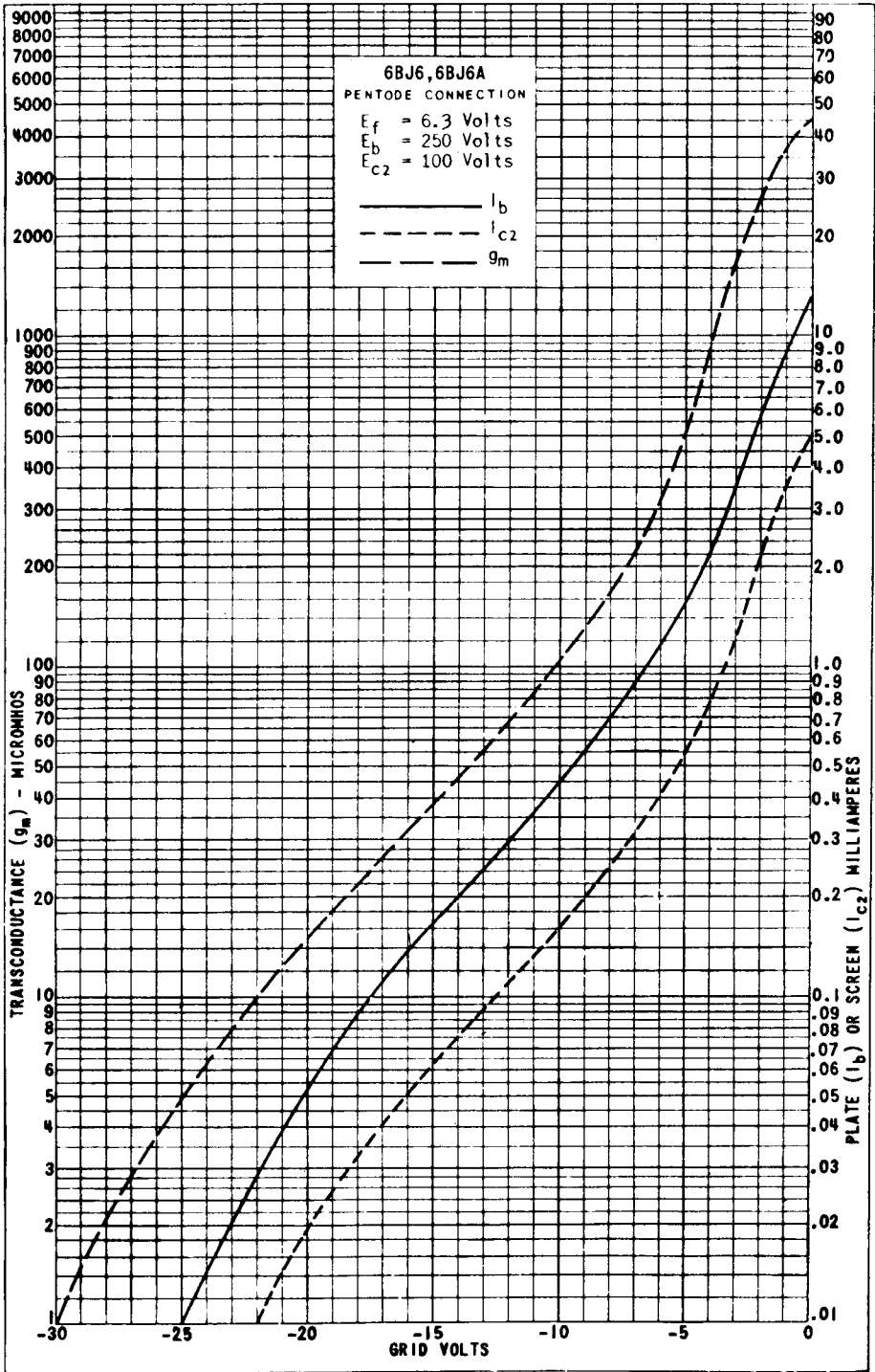
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	150	150	MA.
PLATE VOLTAGE	100	250	VOLTS
GRID #3 VOLTAGE	PIN #7 CONNECTED TO PIN #2 AT SOCKET		
GRID #2 VOLTAGE	100	100	VOLTS
GRID #1 VOLTAGE	-1.0	-1.0	VOLTS
PLATE RESISTANCE (APPROX.)	0.25	1.5	MEG OHMS
TRANSCONDUCTANCE	3 650	3 600	μMHOS
PLATE CURRENT	9	9.2	MA.
GRID #2 CURRENT	3.5	3.3	MA.
GRID #1 VOLTAGE FOR $G_m = 10 \mu\text{MHOS}$	-20	-20	VOLTS

THE INTERFACE IMPEDANCE CONTROL CONSISTS OF A LIFE TEST CONDUCTED FOR 500 HOURS WITH THE FILAMENT OPERATING WITH 6.9 VOLTS IMPOSED. THE OTHER TUBE ELEMENTS ARE UNCONNECTED SIMULATING OPERATION AT CUTOFF CONDITIONS. FOLLOWING LIFE TEST THE SAMPLE TUBES ARE MEASURED AT CONDITIONS $E_f = 5.7\text{V}$; $E_b = 6\text{C}2^m - 6\text{C}3^m - 70\text{Vdc}$; AND E_{c1} ADJUSTED FOR $I_{b1} = 4.0 \text{ mAdc}$. THE MAXIMUM ALLOWABLE VALUE FOR INTERFACE IMPEDANCE IS 70 OHMS. (NOTE IS FOR 6BJ6A ONLY)





6BJ6, 6BJ6A
PENTODE CONNECTION
 $E_f = 6.3$ Volts
 $E_b = 250$ Volts
 $E_{c1} = -1$ Volt
— I_b
--- I_{c2}
- - - g_m
- · - · r_p

