

ADVANCE DATA

MECHANICAL DATA

Bulb	T-12
Base	Large Octal Low Loss Phenolic 7-Pin
Outline	See Drawing
Basing	7S
Cathode	Coated Unipotential
Mounting Position	Any

DURABILITY CHARACTERISTICS

Impact Acceleration (1 msec Duration)	450 G	Max.
Fatigue (Vibrational Acceleration for Extended Periods)	2.5 G	Max.

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ¹	6.3 V
Heater Current	900 mA

RATINGS (Design Maximum)

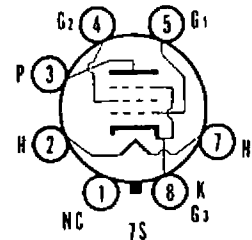
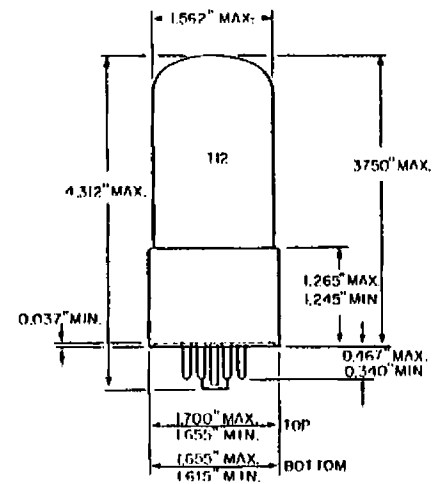
Heater Voltage ¹	6.3 (±10%) V
Plate Voltage	400 Vdc
Grid No. 2 Voltage	300 Vdc
Plate Dissipation	22 W
Grid No. 2 Dissipation	2.8 W
Heater-Cathode Voltage	
Heater Positive with Respect to Cathode	200 v
Heater Negative with Respect to Cathode	200 v

CHARACTERISTICS AND TYPICAL OPERATION

Class A ₁ Amplifier (Single Tube)			
	Min. ²	Avg.	Max. ²
Plate Voltage		250	Volts
Screen Voltage		250	Volts
Grid Voltage ³		-14	Volts
Peak AF Signal Voltage		14	Volts
Plate Current (Zero Signal)	58	72	86 Ma
Plate Current (Maximum Signal)		79	Ma
Screen Current (Zero Signal)	0	5	8 Ma
Screen Current (Maximum Signal)		7.3	Ma
Transconductance	5.2K	6.1K	7.0K μmhos
Plate Resistance		22.5K	Ohms
Load Resistance		2.5K	Ohms
Power Output	5.4	6.5	Watts
Total Harmonic Distortion		10	Percent
¹⁴⁶ Grid Current		-3.0	μa
Heater-Cathode Leakage at ±200 V		50	μa

QUICK REFERENCE DATA

The reliable Type 5932 is a beam power amplifier intended for commercial and industrial applications where a high degree of reliability is required. It is characterized by long life and stable performance under conditions of severe shock and vibration.



SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products, Inc.

RECEIVING TUBE OPERATIONS

EMPORIUM, PENNSYLVANIA

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

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CHARACTERISTICS AND TYPICAL OPERATION (Cont'd)

Class A₁ Amplifier (Single Tube)

Plate Voltage	300	350	Volts
Screen Voltage	200	250	Volts
Grid Voltage ³	-12.5	-18	Volts
Peak AF Signal Voltage	12.5	18	Volts
Plate Current (Zero Signal)	48	54	Ma
Plate Current (Maximum Signal)	55	66	Ma
Screen Current (Zero Signal)	2.5	2.5	Ma
Screen Current (Maximum Signal)	4.7	7.0	Ma
Transconductance	5300	5200	μmhos
Plate Resistance	35000	33000	Ohms
Load Resistance	4500	4200	Ohms
Power Output	6.5	10.8	Watts
Total Harmonic Distortion	11	15	Percent

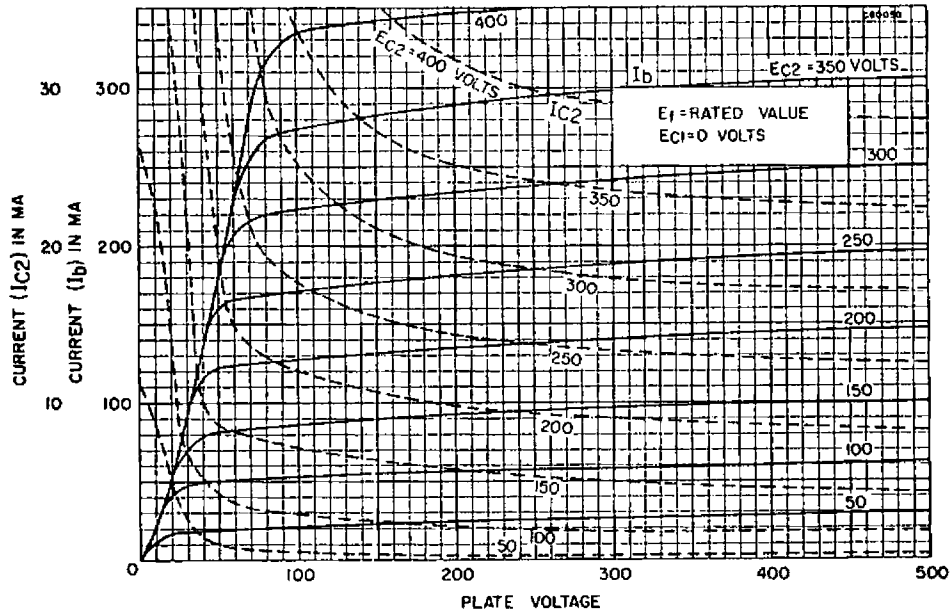
Push-Pull Amplifier

	Class A ₁		Class AB ₁		Class AB ₂		
Plate Voltage	250	270	360	360	360	360	Volts
Screen Voltage	250	250	270	270	225	270	Volts
Grid Voltage ³	-16	-17.5	-22.5	-22.5	-18	-22.5	Volts
Peak AF Grid to Grid Voltage	32	35	45	45	52	72	Volts
Plate Current (Zero Signal)	120	134	88	88	78	88	Ma
Plate Current (Max. Signal)	140	155	132	140	142	205	Ma
Screen Current (Zero Signal)	10	11	5	5	3.5	5	Ma
Screen Current (Max. Signal)	16	17	15	11	11	16	Ma
Transconductance	5500	5700	---	---	---	---	μmhos
Plate Resistance	24500	23500	---	---	---	---	Ohms
Load Resistance	5000	5000	6000	3800	6000	3800	Ohms
Power Output	14.5	17.5	26.5	18	31	47	Watts
Total Harmonic Distortion	2	2	2	2	2	2	Percent

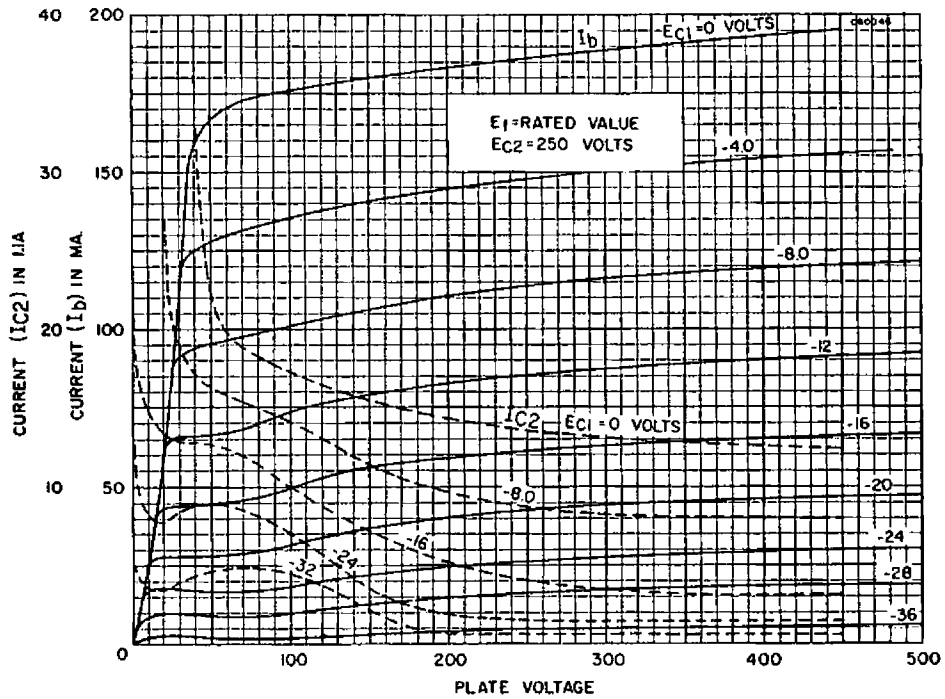
NOTES:

1. Tube life and reliability of performance are directly related to the degree of regulation of the heater voltage to its center rated value of 6.3 volts.
2. Limits given here are the extremes which may be found in production.
3. For fixed bias operation the grid bias resistor should not exceed 0.1 megohm. A grid circuit resistance of 0.25 megohm may be used for self bias providing the heater voltage will not exceed 7.0 volts under any probable operating condition.

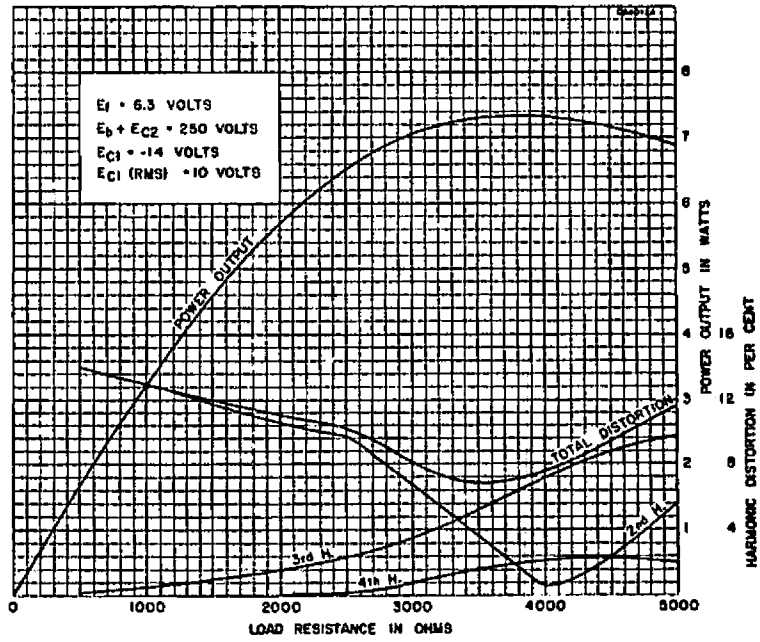
AVERAGE PLATE CHARACTERISTICS



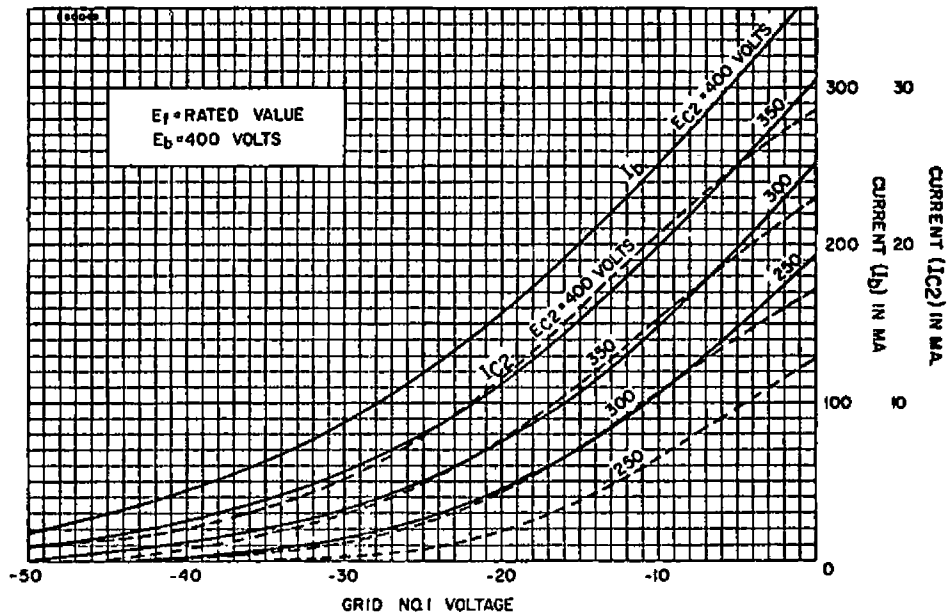
AVERAGE PLATE CHARACTERISTICS



AVERAGE OPERATION CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS
(Triode Connected)

