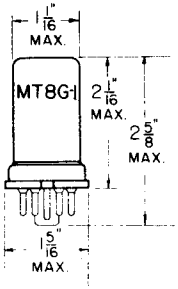
TUNG-SOL

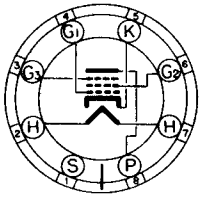
TELEVISION AMPLIFIER PENTODE



COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.45 AMPERE
AC OR DC

ANY MOUNTING POSITION



METAL SHELL

BOTTOM VIEW
SMALL WAFER
8-PIN OCTAL

THE 6AB7/1853 IS A HIGH TRANSCONDUCTANCE SEMI-REMOTE CUT-OFF AMPLIFIER TUBE. THIS TUBE IS DESIGNED FOR TELEVISION RF AND IF AMPLIFIER SERVICE. PRECAUTIONS SHOULD BE TAKEN NOT TO EXCEED DISSIPATION RATING WITH EXPECTED LINE-VOLTAGE FLUCTUATIONS, ESPECIALLY WITH FIXED-BIAS OPERATION.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE (AC OR DC)	6.3	VOLTS
HEATER CURRENT	0.45	AMP.
MAX. PLATE VOLTAGE	300	VOLTS
MAX. SCREEN VOLTAGE	200	VOLTS
MAX. SCREEN SUPPLY VOLTAGE	300	VOLTS
MAX. PLATE DISSIPATION	3.75	WATTS
MAX. SCREEN DISSIPATION	0.65	WATT
HEATER-CATHODE VOLTAGE	AS LOW AS POSSIBLE	

DIRECT INTERELECTRODE CAPACITANCES

WITH SHELL CONNECTED TO CATHODE

GRID TO PLATE (MAX.)	0.015	μμf
INPUT	8	μμf
OUTPUT	5	μμf

CONTINUED ON FOLLOWING PAGE

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PLATE 1602
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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

	WITH FIXED SCREEN SUPPLY	WITH SERIES SCREEN RESISTOR	
HEATER VOLTAGE	6.3	6.3	VOLTS
PLATE VOLTAGE	300	300	VOLTS
SCREEN SUPPLY VOLTAGE[A]	200	300	VOLTS
GRID VOLTAGE (MIN.)[B]	-3	-3	VOLTS
SUPPRESSOR VOLTAGE[C]	0	0	VOLTS
PLATE CURRENT	12.5	12.5	MA.
SCREEN CURRENT	3.2	3.2	MA.
PLATE RESISTANCE (APPROX.)	0.7	0.7	MEGOHM
SERIES SCREEN RESISTOR		30 000	OHMS
GRID RESISTOR (MAX.)			
FIXED BIAS	0.25	0.25	MEGOHM
CATHODE BIAS	0.25	0.5	MEGOHM
TRANSCONDUCTANCE	5000	5000	µMHOS
AMPLIFICATION FACTOR (APPROX.)	3500	3500	
GRID BIAS FOR TRANSCONDUCTANCE OF 50 µMHOS	-15	-22.5	VOLTS

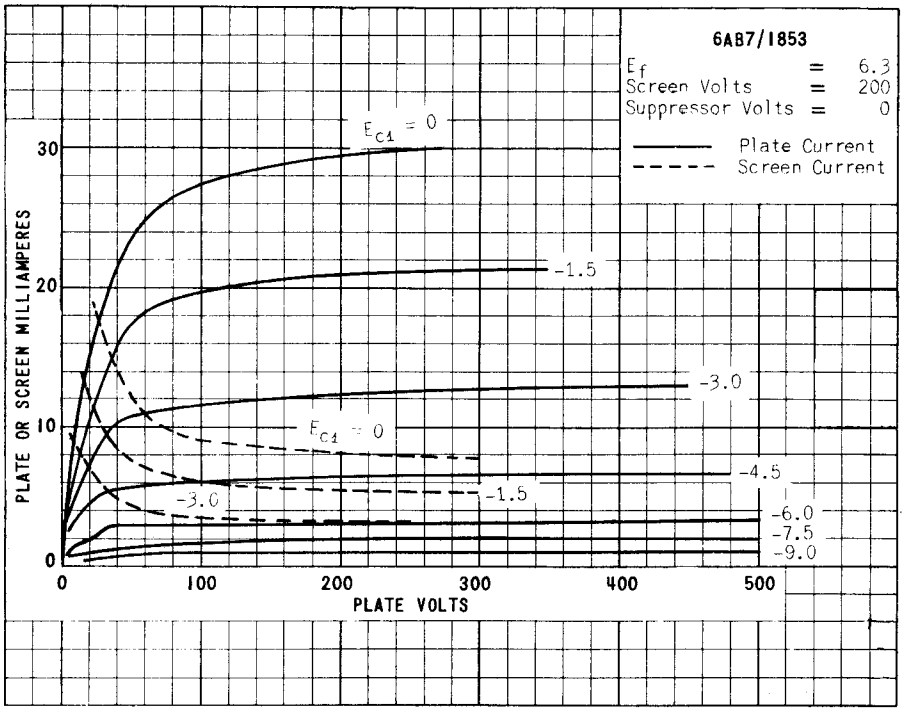
[A] SCREEN SUPPLY VOLTAGES GREATER THAN 200 VOLTS REQUIRE THE USE OF A SERIES DROPPING RESISTOR TO LIMIT THE VOLTAGE AT THE SCREEN TO 200 VOLTS WITH NORMAL PLATE CURRENT OF 12.5 MA.

[B] THE GRID BIAS MAY BE OBTAINED FROM A CATHODE BIAS RESISTOR HAVING A VALUE OF 190 OHMS MINIMUM.

[C] IN RF AND IF STAGES, THE SUPPRESSOR SHOULD BE CONNECTED DIRECTLY TO GROUND TO MINIMIZE FEEDBACK.

NOTE: PRECAUTIONS MUST BE TAKEN IN HIGH FREQUENCY CIRCUITS TO MINIMIZE THE CHARACTERISTICALLY LARGE VARIATION OF INPUT CAPACITANCE AND INPUT CONDUCTANCE WITH PLATE CURRENT.

SIMILAR TYPE REFERENCE: Somewhat similar to type 6SG7.



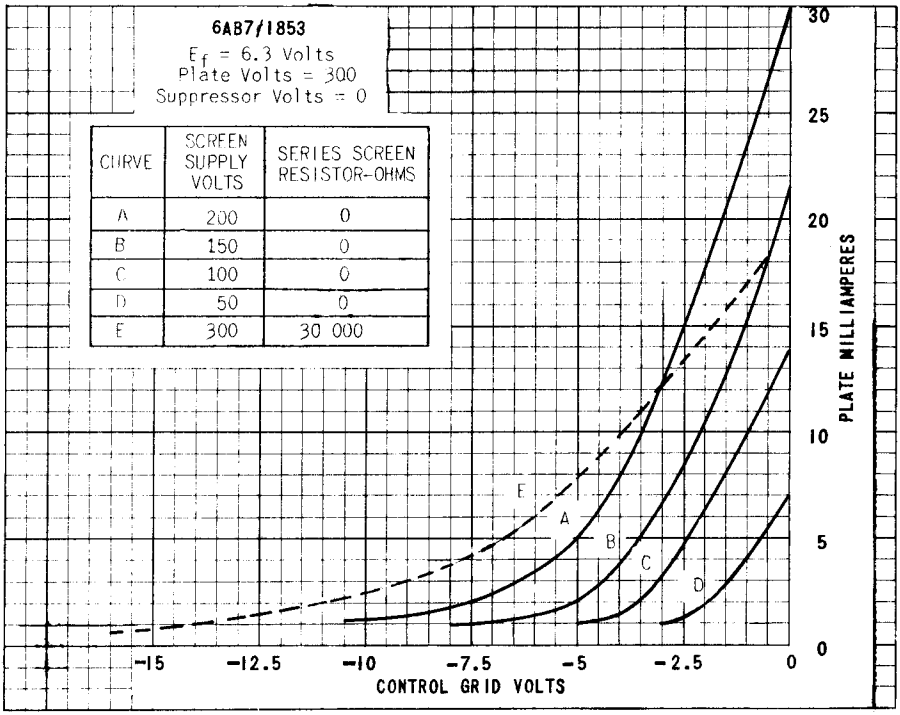


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PLATE 1622
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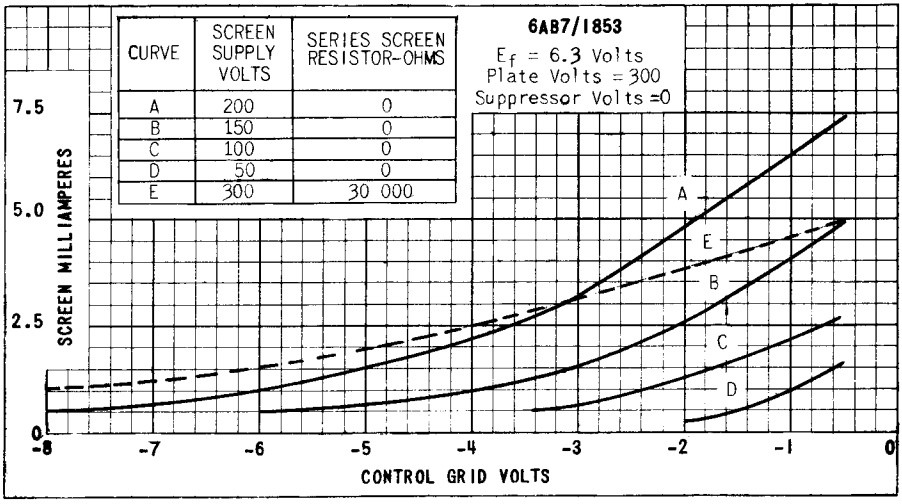
6AB7/1853



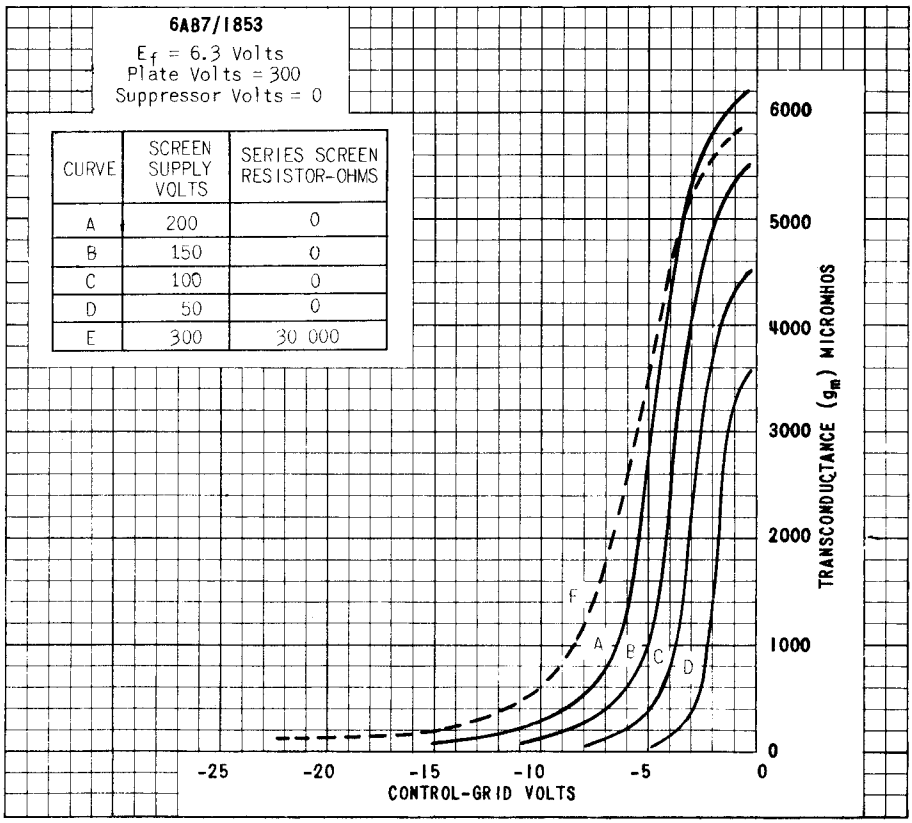


PLATE
1691
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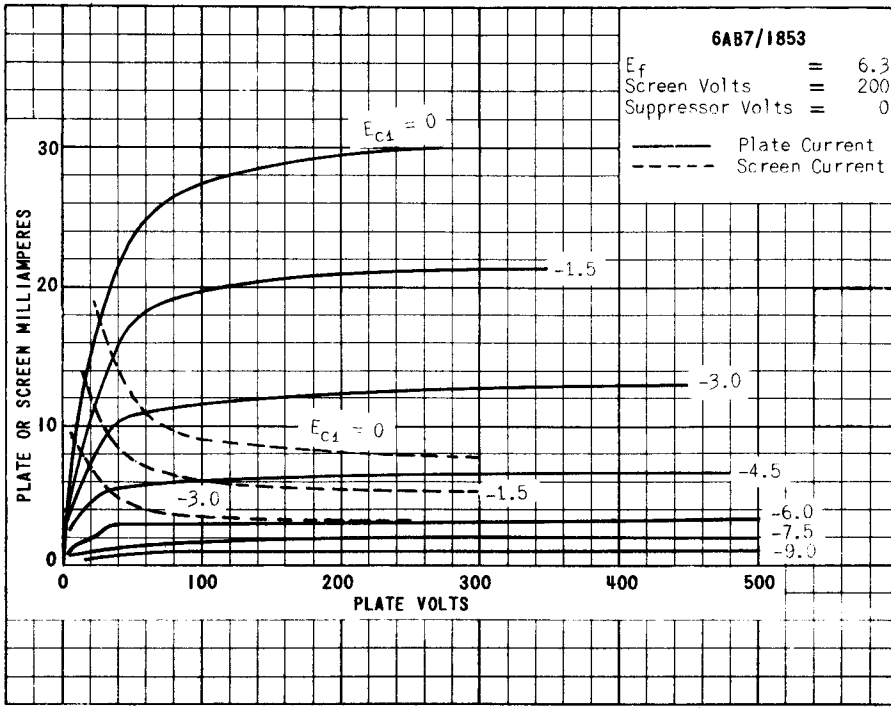
1946



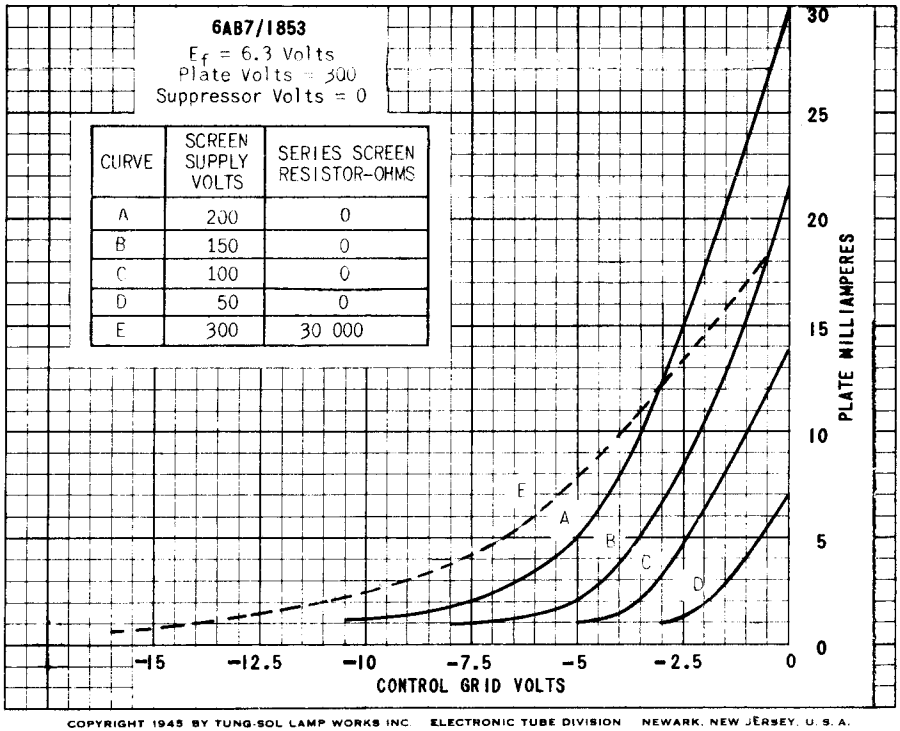


PLATE 1622
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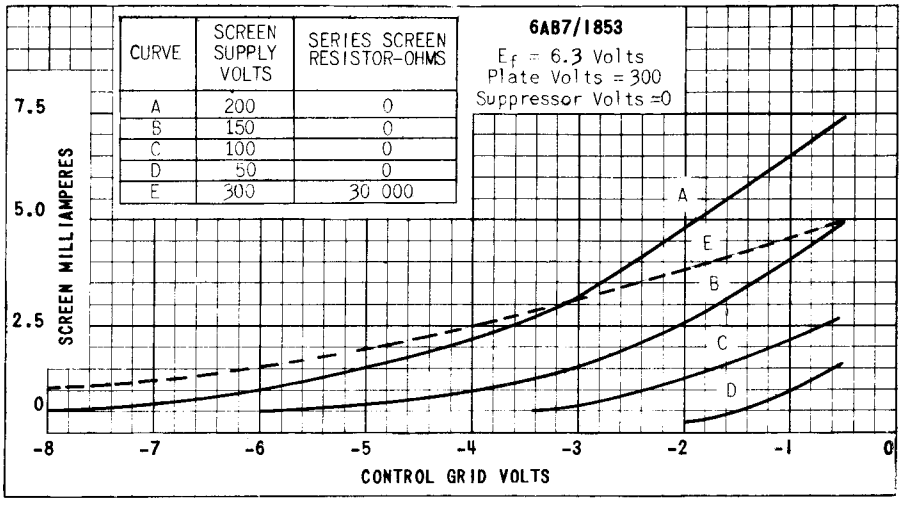
6AB7/1853



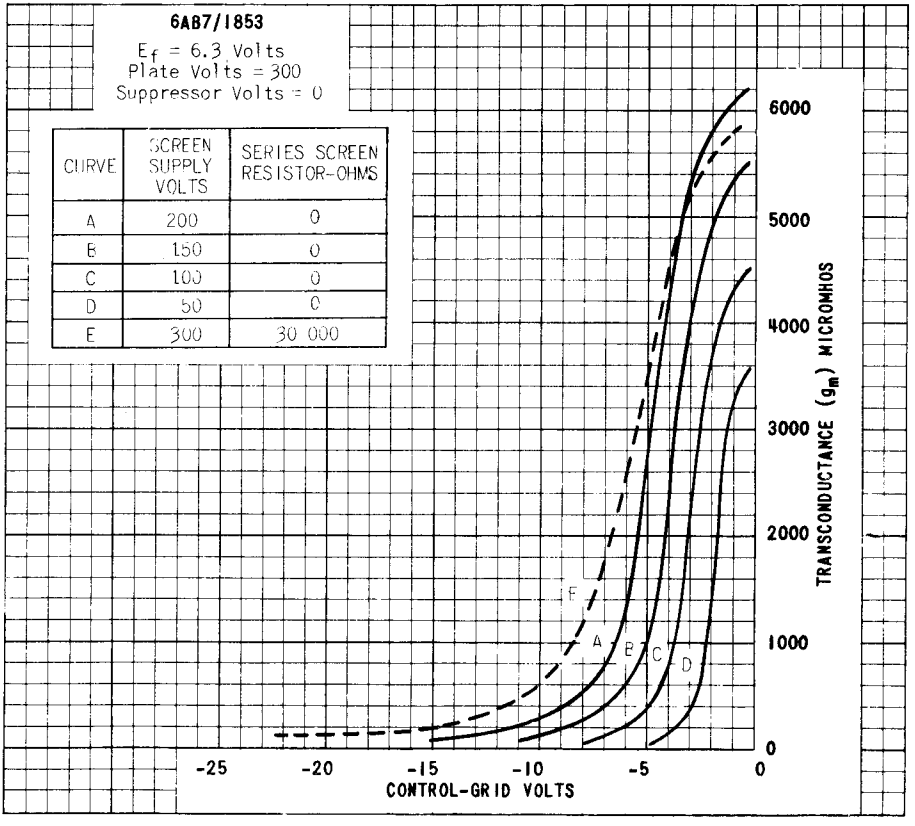


PLATE 1623
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