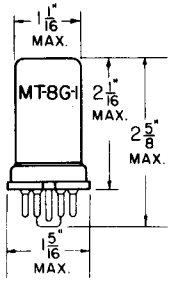
TUNG-SOL

DUO-DIODE TRIODE



METAL SHELL

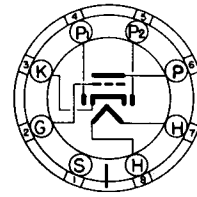
UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.15 AMPERE

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SMALL WAFER 8 PIN OCTAL

THE 12SW7 HAS TWO DIODES AND A MEDIUM-MU TRIODE IN ONE ENVELOPE. IT IS DESIGNED ESPECIALLY FOR USE IN EQUIPMENT WHERE THE OPERATING VOLTAGES ARE OBTAINED FROM A 12 CELL STORAGE BATTERY AND FOR OPERATION AT A PLATE-SUPPLY VOLTAGE HAVING A DESIGN CENTER OF 26.6 VOLTS. IT MAY BE USED FOR SERVICE AS A DIODE DETECTOR, AVC RECTIFIER AND AS AN AUDIO AMPLIFIER IN AC, STORAGE BATTERY AND AC-DC OPERATED RECEIVERS.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
PLATE VOLTAGE	250	VOLTS
PLATE DISSIPATION	2.5	WATTS
PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEG. WITH RESPECT TO CATHODE	90	VOLTS
HEATER POS. WITH RESPECT TO CATHODE	90	VOLTS

DIRECT INTERELECTRODE CAPACITANCES - TRIODE UNIT

WITH SHELL CONNECTED TO CATHODE

GRID TO PLATE (APPROX.)	2.4	μμf
INPUT (APPROX.)	3.0	μμf
OUTPUT (APPROX.)	2.8	μμf

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

PLATE VOLTAGE	26.5	250	VOLTS
GRID VOLTAGE:			
USING FIXED SUPPLY	---	-9	VOLTS
USING GRID RESISTOR	2	---	MEGOHMS
PLATE CURRENT	1.1	9.5	MA.
PLATE RESISTANCE	15 500	8 500	OHMS
TRANSCONDUCTANCE	1 100	1 900	μMHOS
AMPLIFICATION FACTOR	17	16	

CONTINUED ON FOLLOWING PAGE

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

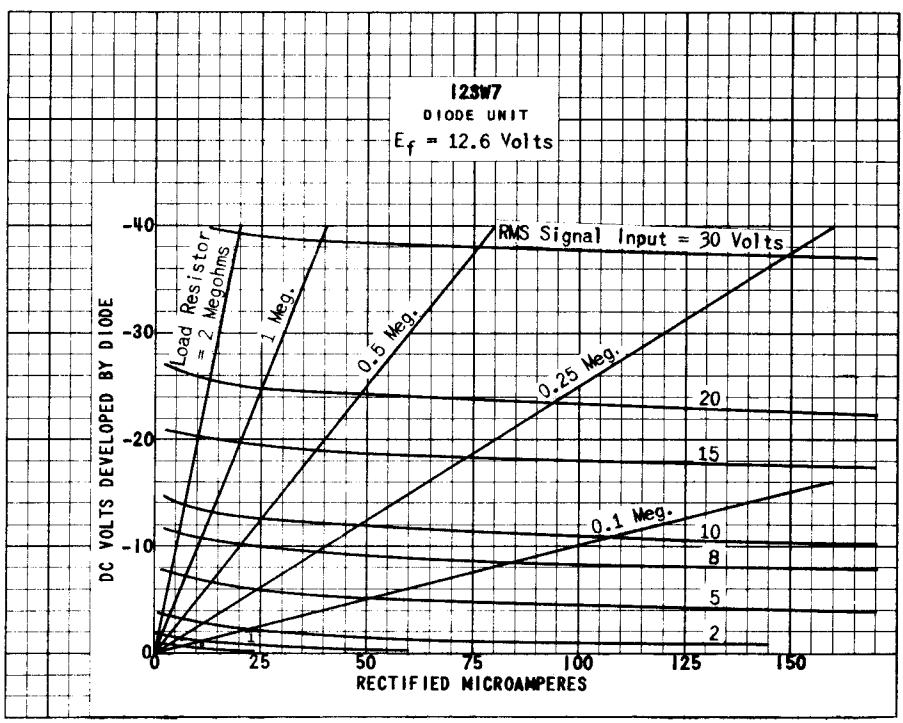
RESISTANCE-COUPLED AMPLIFIER

PLATE SUPPLY VOLTAGE[A]	90	180	300	VOLTS
LOAD RESISTANCE	0.1	0.1	0.1	MEGOHM
GRID RESISTOR	0.25	0.25	0.25	MEGOHMS
CATHODE RESISTOR	4 400	4 100	3 800	OHMS
CATHODE BY-PASS CONDENSER	0.9	0.9	1.1	µf
BLOCKING CONDENSER	0.01	0.01	0.015	µf
PEAK VOLTAGE OUTPUT[B]	19	43	68	VOLTS
VOLTAGE GAIN (AT 5.0 VOLTS RMS)	10	10	10	

[A]VOLTAGE AT PLATE EQUALS PLATE SUPPLY VOLTAGE MINUS VOLTAGE DROP IN LOAD RESISTANCE AND CATHODE RESISTOR.

[B]VOLTAGE ACROSS GRID RESISTOR AT GRID-CURRENT POINT.

SIMILIAR TYPE REFERENCE: *Except for heater ratings, same ratings and characteristics as 6R7, 6R7G, 6R7GT, 6SR7, 6SR7GT, 26C6. Same ratings and characteristics as 12SR7GT.*



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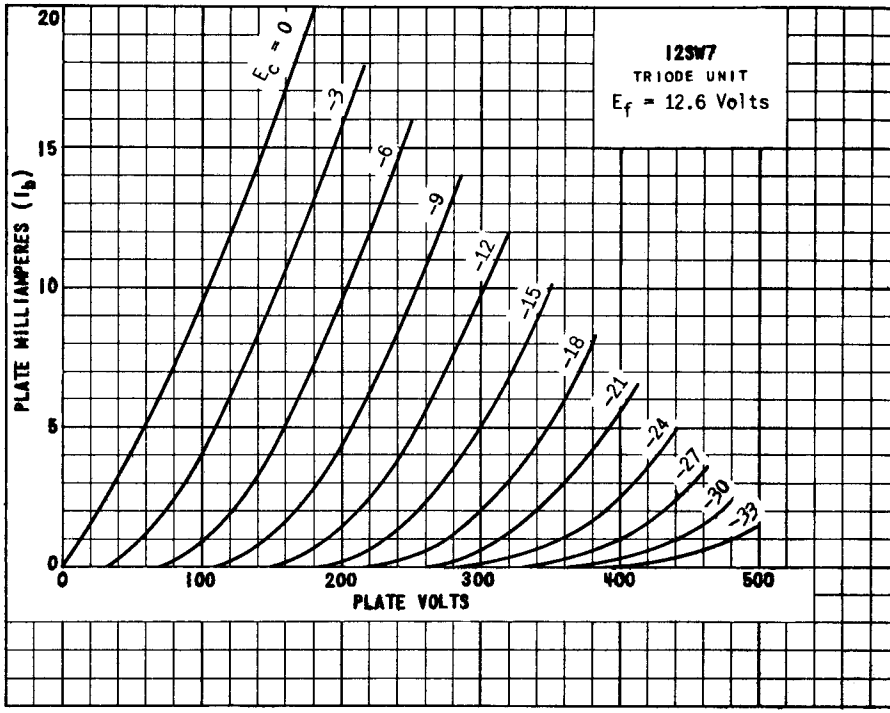

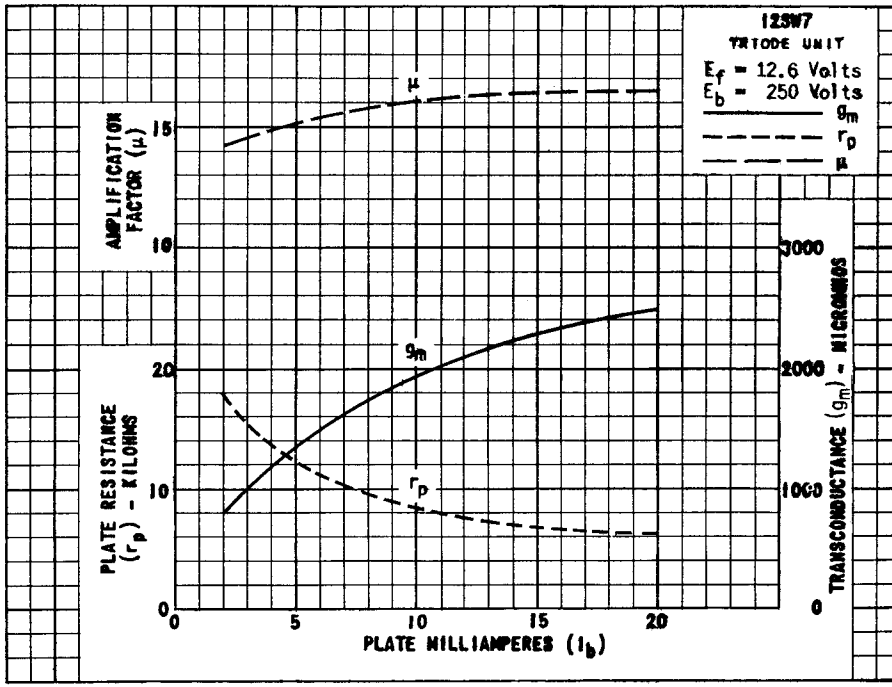

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