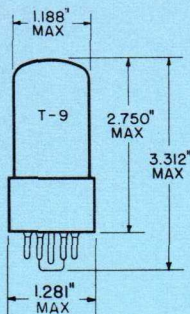


TUNG-SOL

TWIN TRIODE



GLASS BULB

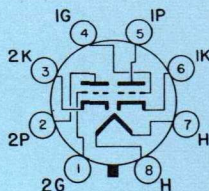
SHORT INTERMEDIATE SHELL
8 PIN OCTAL B8-58
OUTLINE DRAWING
JEDEC 9-41

COATED UNIPOTENTIAL CATHODE*

FOR USE AS AN
AUDIO AMPLIFIER, OSCILLATOR,
CONVERTER OR MULTI-VIBRATOR

LOW B VOLTAGE RATING

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM
JEDEC 8BD

THE 12SX7GT COMBINES TWO MEDIUM-MU TRIODES IN ONE ENVELOPE WHOSE SECTIONS ARE ELECTRICALLY INDEPENDENT EXCEPT FOR THE COMMON HEATER. IT IS DESIGNED FOR USE IN EQUIPMENT WHERE OPERATING VOLTAGES ARE OBTAINED FROM A 12 CELL STORAGE BATTERY. THE 12SX7GT IS RATED IN COMPLIANCE WITH MILITARY STANDARDS.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

	TRIODE #1	TRIODE #2	
GRID TO PLATE: G TO P	3.6	3.6	pf
INPUT: G TO (H+K)	3.0	2.8	pf
OUTPUT: P TO (H+K)	0.8	1.2	pf

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	12.6 VOLTS	300	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION		12.6 ± 1.3	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE		100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		100	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	330	VOLTS
GRID VOLTAGE:		
NEGATIVE BIAS VOLTAGE	50	VOLTS
POSITIVE BIAS VOLTAGE	0	VOLTS
CATHODE CURRENT	20	MA.
PLATE DISSIPATION	2.75	WATTS
GRID CIRCUIT RESISTANCE	1.0	MEGOHM
ALTITUDE	10,000	FT.

TYPICAL OPERATING CHARACTERISTICS

RESISTANCE COUPLED AMPLIFIER - EACH TRIODE

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	MEGOHM
CATHODE RESISTOR	3,940	2,830	2,440	OHMS
CATHODE BY-PASS CONDENSER	1.29	1.35	1.42	μf
BLOCKING CONDENSER	0.012	0.012	0.0125	μf
PEAK VOLTAGE OUTPUT ^B	17	34	56	VOLTS
VOLTAGE GAIN (AT 5.0 VOLTS VOLTS RMS)	13	14	14	

^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.