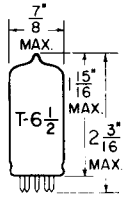
TUNG-SOL

DOUBLE DIODE TRIODE

MINIATURE TYPE



GLASS BULB

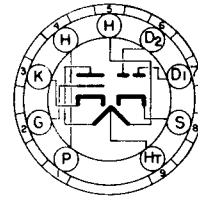
COATED UNIPOTENTIAL CATHODE

HEATER

SERIES	PARALLEL
12.6 VOLTS	6.3 VOLTS
0.225 AMP.	0.45 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
9 PIN BASE

THE 12BR7 CONTAINS TWO HIGH PERVEANCE DIODES AND A MEDIUM-MU TRIODE IN ONE ENVELOPE USING THE 9 PIN MINIATURE CONSTRUCTION. THE DIODES HAVE A COMMON CATHODE WHICH IS INDEPENDENT OF THE TRIODE CATHODE.

DIRECT INTERELECTRODE CAPACITANCES

WITH SHIELD #315

TRIODE INPUT: G TO (H+K)	2.8	μμf
TRIODE OUTPUT: P TO (H+K)	1.0	μμf
GRID TO PLATE: G TO P	1.9	μμf
DIODE INPUT: D TO (K+H) EACH DIODE	2.0	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

	12.6	6.3	
HEATER VOLTAGE			VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
DC AND PEAK		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		100	VOLTS
DC AND PEAK		200	VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE		-50	VOLTS
MAXIMUM PLATE VOLTAGE		300	VOLTS
MAXIMUM PLATE DISSIPATION		2.5	WATTS
MAXIMUM PEAK INVERSE DIODE VOLTAGE		300	VOLTS
MAXIMUM PEAK DIODE CURRENT		60	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER - TRIODE SECTION

HEATER VOLTAGE	12.6	6.3	12.6	6.3	VOLTS
HEATER CURRENT	0.225	0.45	0.225	0.45	AMP.
PLATE VOLTAGE	100		250		VOLTS
CATHODE BIAS RESISTOR	270		200		OHMS
PLATE CURRENT	3.7		10		MA.
PLATE RESISTANCE	15 000		10 900		OHMS
TRANSCONDUCTANCE	4 000		5 500		μMHOS
AMPLIFICATION FACTOR	60		60		
GRID VOLTAGE (APPROX.) FOR I_b = 10 μA.	-5		-12		VOLTS

DIODE SECTION

AVERAGE DIODE CURRENT WITH 5 Vdc APPLIED (EACH SECTION)	17	MA.

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