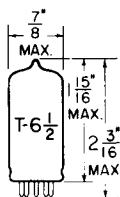


TUNG-SOL

DOUBLE DIODE TRIODE

MINIATURE TYPE



GLASS BULB

COATED UNIPOTENTIAL CATHODE

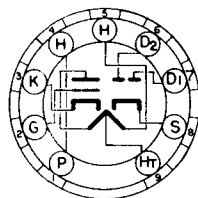
HEATER

SERIES
12.6 VOLTS
0.225 AMP.

PARALLEL
6.3 VOLTS
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	μf
TRIODE OUTPUT: P TO (H+K)	1.0	μf
GRID TO PLATE: G TO P	1.9	μf
DIODE INPUT: D TO (K+H) EACH DIODE	2.0	μf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	12.6	6.3	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 A₁ 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 $i_b = 10 \mu A$.		-5		-12	VOLTS

DIODE SECTION

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