TUNG-SOL

DOUBLE DIODE TRIODE
MINIATURE TYPE

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

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 AND PEAK 100 VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE -200 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 1b ~ 10 MA. -5 -12 VOLTS

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