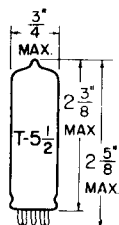


## TUNG-SOL

## DOUBLE-DIODE TRIODE

## MINIATURE TYPE



GLASS BULB

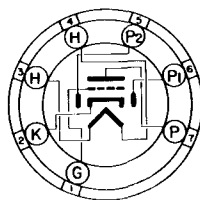
## UNIPOTENTIAL CATHODE

## HEATER

12.6 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

781

THE 12BU6 IS A COMBINED LOW- $\mu$  TRIODE VOLTAGE AMPLIFIER AND DOUBLE DIODE DETECTOR USING THE 7 PIN MINIATURE CONSTRUCTION. THE LOW AMPLIFICATION FACTOR OF THE TRIODE PERMITS LARGE VALUES OF OUTPUT SIGNAL WITH LOW DISTORTION. THE HIGH PERVEANCE DIODES GIVE GOOD RECTIFICATION EFFICIENCY AT LOW SIGNALS AND THE DIODE SHIELDING REDUCES UNDESIRABLE AUDIO COUPLING BETWEEN DIODES AND TRIODE.

## DIRECT INTERELECTRODE CAPACITANCES

|                                 | WITH <sup>A</sup><br>SHIELD | WITHOUT<br>SHIELD |          |
|---------------------------------|-----------------------------|-------------------|----------|
| DIODE #1 OR DIODE #2 TO CATHODE | 1                           | 1                 | $\mu$ mf |
| DIODE #1 TO GRID                | 0.01                        | 0.015             | $\mu$ mf |

<sup>A</sup> WITH RMA SHIELD #316 CONNECTED TO CATHODE

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

|                                                           |      |       |
|-----------------------------------------------------------|------|-------|
| HEATER VOLTAGE                                            | 12.6 | VOLTS |
| MAXIMUM HEATER-CATHODE VOLTAGE                            | 90   | VOLTS |
| MAXIMUM PLATE VOLTAGE                                     | 300  | VOLTS |
| MAXIMUM POSITIVE DC GRID VOLTAGE                          | 0    | VOLTS |
| AVERAGE DIODE CURRENT EACH PLATE WITH 10 VOLTS DC APPLIED | 4    | MA.   |
| AVERAGE DIODE CURRENT EACH PLATE FOR CONTINUOUS OPERATION | 1    | MA.   |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

|                           |        |        |            |
|---------------------------|--------|--------|------------|
| HEATER VOLTAGE            | 12.6   | 12.6   | VOLTS      |
| HEATER CURRENT            | 150    | 150    | MA.        |
| PLATE VOLTAGE             | 100    | 250    | VOLTS      |
| GRID VOLTAGE              | -3     | -9     | VOLTS      |
| SELF BIAS RESISTOR        | 770    | 950    | OHMS       |
| PLATE CURRENT             | 3.9    | 9.5    | MA.        |
| PLATE RESISTANCE          | 11 000 | 8 500  | OHMS       |
| TRANSCONDUCTANCE          | 1 500  | 1 900  | $\mu$ MHOS |
| AMPLIFICATION FACTOR      | 16.5   | 16     |            |
| LOAD RESISTANCE           | ---    | 10 000 | OHMS       |
| TOTAL HARMONIC DISTORTION | ---    | 6.5    | PERCENT    |
| POWER OUTPUT              | ---    | 300    | MW.        |

12BU6 (6BU6)

