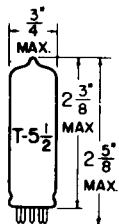


## TUNG-SOL

## DOUBLE-DIODE TRIODE

## MINIATURE TYPE



GLASS BULB

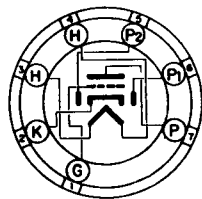
UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 300 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

78T

THE 6BU6 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                 | μmf |
| DIODE #1 TO GRID                | 0.01                        | 0.015             | μmf |

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

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

|                                                           |     |       |
|-----------------------------------------------------------|-----|-------|
| HEATER VOLTAGE                                            | 6.3 | 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            | 6.3    | 6.3    | VOLTS   |
| HEATER CURRENT            | 300    | 300    | 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  | μMHOS   |
| AMPLIFICATION FACTOR      | 16.5   | 16     |         |
| LOAD RESISTANCE           | ---    | 10 000 | OHMS    |
| TOTAL HARMONIC DISTORTION | ---    | 6.5    | PERCENT |
| POWER OUTPUT              | ---    | 300    | MW.     |

6BU6 (12BU6)

