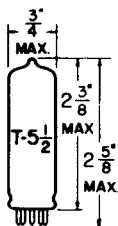


**TUNG-SOL****DOUBLE-DIODE TRIODE****MINIATURE TYPE****GLASS BULB**

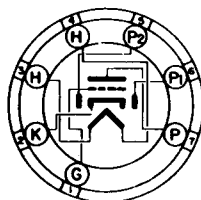
UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 300 MA.

AC OR DC

ANY MOUNTING POSITION

**BOTTOM VIEW**MINIATURE BUTTON  
7 PIN BASE

7BT

THE 6BT6 IS A COMBINED HIGH-MU TRIODE VOLTAGE AMPLIFIER AND DOUBLE DIODE DETECTOR USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS INTENDED TO PROVIDE ADEQUATE OUTPUT VOLTAGE TO DRIVE MOST BEAM POWER TUBES TO FULL POWER OUTPUT. THE HIGH PERVEANCE DIODES GIVE GOOD RECTIFICATION EFFICIENCY AT LOW SIGNAL LEVELS AND THE LOW DIODE TO TRIODE GRID CAPACITANCE REDUCES TROUBLE FROM AUDIO COUPLING BETWEEN THE TWO SECTIONS.

**DIRECT INTERELECTRODE CAPACITANCES**

|                                | WITH <sup>A</sup><br>SHIELD | WITHOUT<br>SHIELD |     |
|--------------------------------|-----------------------------|-------------------|-----|
| DIODE #1 TO CATHODE: (1P TO K) | 1                           | 1                 | μuf |
| DIODE #2 TO CATHODE: (2P TO K) | 1                           | 1                 | μuf |
| DIODE #1 TO GRID: (1P TO G)    | 0.01                        | 0.013             | μuf |

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

INTERPRETED ACCORDING TO RMA STANDARD WB-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<br>10 VOLTS DC APPLIED | 4   | MA.   |
| MAXIMUM DIODE CURRENT EACH PLATE FOR<br>CONTINUOUS OPERATION | 1   | MA.   |

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

|                      |        |        |       |
|----------------------|--------|--------|-------|
| HEATER VOLTAGE       | 6.3    | 6.3    | VOLTS |
| HEATER CURRENT       | 300    | 300    | MA.   |
| PLATE VOLTAGE        | 100    | 250    | VOLTS |
| GRID VOLTAGE         | -1     | -3     | VOLTS |
| PLATE CURRENT        | 0.8    | 1      | MA.   |
| PLATE RESISTANCE     | 54 000 | 58 000 | OHMS  |
| TRANSCONDUCTANCE     | 1 300  | 1 200  | μMHMS |
| AMPLIFICATION FACTOR | 70     | 70     |       |

# 6BT6 (12BT6)

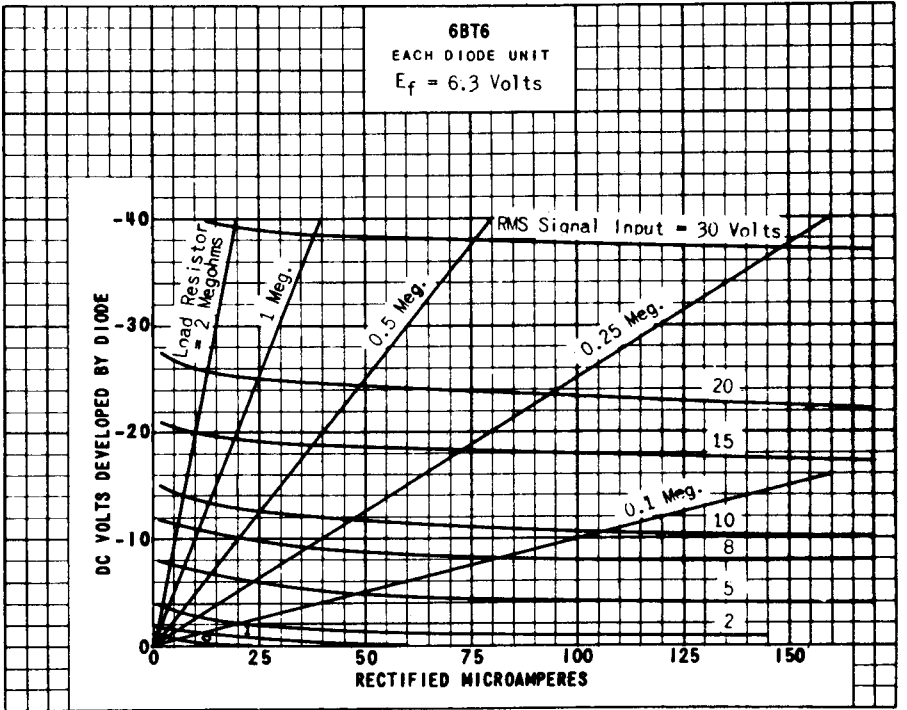
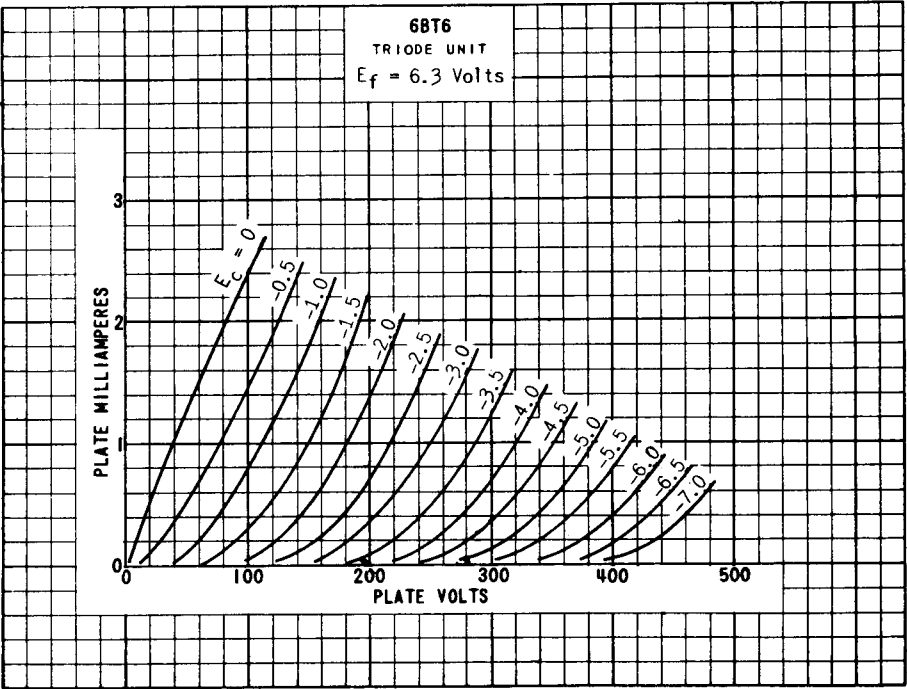


PLATE  
2303  
JAN. 1  
1950