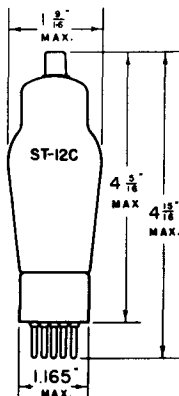


## TUNG-SOL



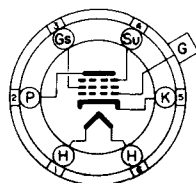
TRIPLE GRID  
DETECTOR AMPLIFIER

UNIPOTENTIAL CATHODE

HEATER  
2.5 VOLTS 1.0 AMPERE  
AC OR DC

GLASS BULB

SMALL 6 PIN BASE



6F

BOTTOM VIEW

THE TUNG-SOL 57 IS A TRIPLE GRID GENERAL PURPOSE DETECTOR AMPLIFIER. EXCEPT FOR HEATER RATINGS, ITS ELECTRICAL CHARACTERISTICS ARE IDENTICAL WITH THOSE OF THE 6C6.

## OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

|                                                     |                                |      |      |      |         |
|-----------------------------------------------------|--------------------------------|------|------|------|---------|
| PLATE VOLTAGE                                       | 100                            | 250  | 250  | 335  | VOLTS   |
| SCREEN VOLTAGE                                      | 100                            | 100  | 125  | 110  | VOLTS   |
| CONTROL GRID VOLTAGE                                | -3                             | -3   | -3   | -3   | VOLTS   |
| SUPPRESSOR GRID                                     | CONNECTED TO CATHODE AT SOCKET |      |      |      |         |
| PLATE CURRENT                                       | 2                              | 2    | 3.7  | 2.7  | MA.     |
| SCREEN CURRENT                                      | 0.5                            | 0.5  | 1    | 0.7  | MA.     |
| PLATE RESISTANCE APPROX.                            | 1.0                            | 1.5  | 1.7  | 2.6  | MEGOHMS |
| TRANSCONDUCTANCE                                    | 1185                           | 1225 | 1510 | 1325 | μMHOS   |
| AMPLIFICATION FACTOR APPROX.                        | 1185                           | 1850 | 2500 | 3500 |         |
| CONTROL GRID VOLTAGE<br>FOR CATHODE CURRENT CUT-OFF | -7                             | -7   | -9   | -7.5 | VOLTS   |

## BIASED DETECTOR

|                       |                                |        |        |         |
|-----------------------|--------------------------------|--------|--------|---------|
| PLATE SUPPLY VOLTAGE  | 100                            | 100    | 250    | VOLTS   |
| SCREEN SUPPLY VOLTAGE | 16                             | 100    | 100    | VOLTS   |
| PLATE RESISTOR        | 1                              | 1      | 0.5    | MEGOHM  |
| SCREEN RESISTOR       | 0                              | 2      | 0      | MEGOHMS |
| CATHODE RESISTOR      | 30 000                         | 25 000 | 10 000 | OHMS    |
| SUPPRESSOR GRID       | CONNECTED TO CATHODE AT SOCKET |        |        |         |

## DIRECT INTERELECTRODE CAPACITANCES

|                                    |           |    |
|------------------------------------|-----------|----|
| CONTROL GRID TO CATHODE            | 5         | μf |
| PLATE TO CATHODE                   | 6.5       | μf |
| CONTROL GRID TO PLATE <sup>5</sup> | .007 MAX. | μf |

<sup>5</sup> WITH SHIELD