



## ELECTRONIC TUBE REFERENCE

## 25A7G

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-RECTIFIER

Combination rectifier diode and power pentode designed to integrate receiver power-supply rectification with audio power-output amplification.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 8             |
| NOMINAL HEATER      | 25 V / 300 mA     | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

## SECTION RATINGS

|                                                                                                                              |                |
|------------------------------------------------------------------------------------------------------------------------------|----------------|
| SECTION 1 Pentode                                                                                                            |                |
| PLATE RESISTANCE                                                                                                             | 50000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                             | 0.0018 S       |
| MAXIMUM PLATE VOLTAGE                                                                                                        | 117 V          |
| MAXIMUM SCREEN VOLTAGE                                                                                                       | 117 V          |
| MAXIMUM PLATE DISSIPATION                                                                                                    | 2.25 W         |
| MAXIMUM SCREEN DISSIPATION                                                                                                   | 0.8 W          |
| <i>Electrical section reconstructed from published ratings/characteristics; promoted transconductance normalized to A/V.</i> |                |

|                                                                                                 |        |
|-------------------------------------------------------------------------------------------------|--------|
| <b>SECTION2</b> Rectifier                                                                       |        |
| <b>PEAK INVERSE VOLTAGE</b>                                                                     | 350 V  |
| <b>NOMINAL OUTPUT CURRENT</b>                                                                   | 75 mA  |
| <b>PEAK FORWARD CURRENT</b>                                                                     | 450 mA |
| <i>Physical section represented from published tube construction and section-specific data.</i> |        |

Combined rectifier diode and power pentode.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1937 Raytheon Radio Receiving Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1937 RAYTHEON RADIO RECEIVING TUBES

## Section 1 · Pentode

| OTHER                         |                 |                   |
|-------------------------------|-----------------|-------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE  |
| Maximum Plate Voltage         | 100 V           | Published ratings |
| Maximum Screen Voltage        | 100 V           | Published ratings |
| Plate Voltage                 | 100 V           | ClassA            |
| Screen Voltage                | 100 V           | ClassA            |
| Grid Bias                     | -15 V           | ClassA            |
| Plate Resistance              | 30000 ohm       | ClassA            |
| Transconductance              | 1800            | ClassA            |
| Plate Current                 | 20.5 mA         | ClassA            |
| Load Resistance               | 4500 ohm        | ClassA            |
| Total Harmonic Distortion     | 9 %             | ClassA            |
| Power Output                  | 0.77 W          | ClassA            |
| Maximum A-C Plate Voltage RMS | 125 V           | ClassA            |
| Maximum D-C Output Current    | 75 mA           | ClassA            |

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1948 Brimar Radio Valve Manual

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1948 BRIMAR RADIO VALVE MANUAL

## Section 1 · Pentode

| OTHER        |                 |                  |
|--------------|-----------------|------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE |
| Power Output | 0.77 W          | PentodeSection   |

1948 BRIMAR RADIO VALVE MANUAL

## Section 2 · Rectifier

| CHARACTERISTIC          |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| HeaterOrFilamentVoltage | 25 V            | —                |
| HeaterOrFilamentCurrent | 300 mA          | —                |

| OTHER     |                 |                  |
|-----------|-----------------|------------------|
| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
| RMSInput  | 125 V           | RectifierSection |



### SOURCE OPERATING CONDITIONS

# 1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

## Section 1 · Pentode

| OTHER          |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Voltage  | 100 V           | ClassA           |
| Screen Voltage | 100 V           | ClassA           |
| Power Output   | 0.77 W          | ClassA           |

1961 TUNG SOL

## Section 2 · Rectifier

| OTHER                        |                 |                  |
|------------------------------|-----------------|------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum AC Plate Voltage RMS | 117 V           | —                |
|                              |                 |                  |

| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE |
|------------------------------------------|-----------------|------------------|
| Minimum Effective Plate Supply Impedance | 15 ohm          | —                |

| CHARACTERISTIC    |                 |                    |
|-------------------|-----------------|--------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE   |
| Tube Voltage Drop | 23 V            | PlateCurrent=150mA |