



## ELECTRONIC TUBE REFERENCE

## 5AU4

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Glass-octal full-wave rectifier designed for color and black-and-white television receivers and other high-current power supplies. It provides approximately 350 mA nominal rectified output with substantial peak inverse-voltage capability.

## GENERAL CHARACTERISTICS

|                     |                |                      |               |
|---------------------|----------------|----------------------|---------------|
| BASE DESIGNATION    | 5T             | BASE PINS            | 8             |
| NOMINAL HEATER      | 5 V / 3.75 A   | PARALLEL HEATER      | – / –         |
| HEATING             | Direct         | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Common cathode | SECTION CONSTRUCTION | Similar       |

## 5T - TERMINAL PINOUT

| TERMINAL  | SECTION | ELEMENT              | STATUS    |
|-----------|---------|----------------------|-----------|
| PIN1 – IS | A       | IS – Internal Screen | CONNECTED |
| PIN2 – F  | –       | F – Filament         | CONNECTED |
| PIN4 – P1 | A       | P – Plate (Anode)    | CONNECTED |
| PIN6 – P2 | A       | P – Plate (Anode)    | CONNECTED |
| PIN8 – F  | –       | F – Filament         | CONNECTED |

## SECTION RATINGS

| SECTION1 Rectifier                                                                                       |        |
|----------------------------------------------------------------------------------------------------------|--------|
| PEAK INVERSE VOLTAGE                                                                                     | 1660 V |
| NOMINAL OUTPUT CURRENT                                                                                   | 415 mA |
| PEAK FORWARD CURRENT                                                                                     | 1.4 A  |
| FORWARD VOLTAGE DROP                                                                                     | 50 V   |
| <i>Representative row for two identical rectifier sections; transient peak current 5.25 A for 0.2 s.</i> |        |

| SECTION2 Rectifier                                                                                           |        |
|--------------------------------------------------------------------------------------------------------------|--------|
| PEAK INVERSE VOLTAGE                                                                                         | 1660 V |
| NOMINAL OUTPUT CURRENT                                                                                       | 415 mA |
| PEAK FORWARD CURRENT                                                                                         | 1.4 A  |
| FORWARD VOLTAGE DROP                                                                                         | 50 V   |
| <i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i> |        |

Glass octal type used in power supplies of color and black-and-white television receivers and other equipment having high dc requirements. Outlines section, 19E; requires octal socket. Vertical mounting is preferred, but horizontal mounting is permissible if pins 2 and 4 are in vertical plane. It is especially important that this tube, like other power-handling tubes, be adequately ventilated. For discussion of Rating Chart, refer to Interpretation of Tube Data.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 195X General Electric Essential Characteristics

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

## 195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 1 · Rectifier

| OTHER                          |                 |                  |
|--------------------------------|-----------------|------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum DC Output Current      | 325 mA          | FullWave         |
| Maximum Peak Inverse Voltage   | 1400 V          | FullWave         |
| RMS Supply Voltage Per Plate   | 400 V           | FullWave         |
| Maximum Peak Current Per Plate | 1075 mA         | FullWave         |

| CHARACTERISTIC                    |                 |                  |
|-----------------------------------|-----------------|------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE |
| Forward Voltage Drop              | 5 V             | FullWave         |
| Forward Voltage Drop Test Current | 350 mA          | FullWave         |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 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 · Rectifier

| OTHER                       |                 |                  |
|-----------------------------|-----------------|------------------|
| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE |
| AC plate supply voltage RMS | 300 V           | FullWave         |
|                             |                 |                  |

| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
|-------------------|-----------------|------------------|
| DC output current | 350 mA          | FullWave         |



## SOURCE OPERATING CONDITIONS

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# 1966 Tung Sol Electronic Tubes 1 of 4

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

## 1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

### Section 1 · Rectifier

| CHARACTERISTIC          |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| Heater/filament voltage | 5 V             | Published rating |
| Heater/filament current | 3.75 A          | Published rating |

| OTHER                                   |                 |                  |
|-----------------------------------------|-----------------|------------------|
| PARAMETER                               | PUBLISHED VALUE | CONDITION / NOTE |
| AC supply voltage                       | 300 V RMS       | FullWave         |
| DC output current                       | 350 mA          | FullWave         |
| Maximum peak inverse voltage            | 1550 V          | FullWave         |
| Maximum steady-state peak plate current | 1 A             | EachPlate        |



## SOURCE OPERATING CONDITIONS

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# 1968 General Electric Co

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

## 1968 GENERAL ELECTRIC CO

### Section 1 · Rectifier

| OTHER                             |                 |                      |
|-----------------------------------|-----------------|----------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE     |
| AC Plate Supply Voltage Per Plate | 300 V           | CapacitorInputFilter |

| PARAMETER                          | PUBLISHED VALUE | CONDITION / NOTE     |
|------------------------------------|-----------------|----------------------|
| Filter Input Capacitor             | 40 uF           | CapacitorInputFilter |
| TotalPlateSupplyResistancePerPlate | 30 ohm          | CapacitorInputFilter |
| DC Output Current                  | 350 mA          | CapacitorInputFilter |
| DC Output Voltage                  | 275 V           | CapacitorInputFilter |
| AC Plate Supply Voltage Per Plate  | 500 V           | ChokeInputFilter     |
| Filter Input Choke                 | 10 H            | ChokeInputFilter     |
| DC Output Current                  | 325 mA          | ChokeInputFilter     |
| DC Output Voltage                  | 395 V           | ChokeInputFilter     |

1968 GENERAL ELECTRIC CO

## Section 2 · Rectifier

| OTHER                              |                 |                      |
|------------------------------------|-----------------|----------------------|
| PARAMETER                          | PUBLISHED VALUE | CONDITION / NOTE     |
| AC Plate Supply Voltage Per Plate  | 300 V           | CapacitorInputFilter |
| Filter Input Capacitor             | 40 uF           | CapacitorInputFilter |
| TotalPlateSupplyResistancePerPlate | 30 ohm          | CapacitorInputFilter |
| DC Output Current                  | 350 mA          | CapacitorInputFilter |
| DC Output Voltage                  | 275 V           | CapacitorInputFilter |
| AC Plate Supply Voltage Per Plate  | 500 V           | ChokeInputFilter     |
| Filter Input Choke                 | 10 H            | ChokeInputFilter     |
| DC Output Current                  | 325 mA          | ChokeInputFilter     |



SOURCE DATA APPENDIX

### SOURCE OPERATING CONDITIONS

SOURCE PDF

# 1975 RCA RC30

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

1975 RCA RC30

## Section 1 · Rectifier

| CHARACTERISTIC             |                 |                                            |
|----------------------------|-----------------|--------------------------------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE                           |
| Peak Inverse Plate Voltage | 1660 volts      | Published value from supplied target entry |

| PARAMETER                                              | PUBLISHED VALUE    | CONDITION / NOTE                           |
|--------------------------------------------------------|--------------------|--------------------------------------------|
| Peak Plate Current (Per Plate)                         | <b>1.4 amperes</b> | Published value from supplied target entry |
| Hot-Switching Transient Plate Current (Per Plate)      | <b>6.6 amperes</b> | Published value from supplied target entry |
| AC Plate-Supply Voltage (Per Plate, rms, without load) | <b>660 volts</b>   | Published value from supplied target entry |
| Average Output Current (Per Plate)                     | <b>415 mA</b>      | Published value from supplied target entry |
| AC Plate-to-Plate Supply Voltage (rms)                 | <b>1000 volts</b>  | Published value from supplied target entry |
| Average Output Current                                 | <b>360 mA</b>      | Published value from supplied target entry |
| Tube Voltage Drop for plate current of                 | <b>42 mA</b>       | Published value from supplied target entry |

| CAPACITANCE                                                                              |                  |                                            |
|------------------------------------------------------------------------------------------|------------------|--------------------------------------------|
| PARAMETER                                                                                | PUBLISHED VALUE  | CONDITION / NOTE                           |
| * With capacitor-input filter for ac plate-supply volts (rms, per plate, without load) = | <b>470 volts</b> | Published value from supplied target entry |
| Filter-Input Capacitor"                                                                  | <b>40</b>        | Published value from supplied target entry |
| When capacitor values greater than                                                       | <b>40</b>        | Published value from supplied target entry |

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