

ELECTRONIC TUBE REFERENCE

5V3A

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA  
2 SECTIONS  
CONSTRUCTION  
RECTIFIER-RECTIFIER

Glass-octal full-wave rectifier for color and black-and-white television receivers and other high-current supplies. Its 5 V filament supports approximately 350 mA DC output and substantial peak current.

GENERAL CHARACTERISTICS

|                     |                |                      |               |
|---------------------|----------------|----------------------|---------------|
| BASE DESIGNATION    | —              | BASE PINS            | 8             |
| NOMINAL HEATER      | 5 V / 3 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Direct         | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Common cathode | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                     |        |
|-----------------------------------------------------|--------|
| SECTION1 Rectifier                                  |        |
| PEAK INVERSE VOLTAGE                                | 1550 V |
| NOMINAL OUTPUT CURRENT                              | 415 mA |
| PEAK FORWARD CURRENT                                | 1.4 A  |
| FORWARD VOLTAGE DROP                                | 42 V   |
| Representative row for identical repeated sections. |        |

|                                                                                                          |        |
|----------------------------------------------------------------------------------------------------------|--------|
| SECTION2 Rectifier                                                                                       |        |
| PEAK INVERSE VOLTAGE                                                                                     | 1550 V |
| NOMINAL OUTPUT CURRENT                                                                                   | 415 mA |
| PEAK FORWARD CURRENT                                                                                     | 1.4 A  |
| FORWARD VOLTAGE DROP                                                                                     | 42 V   |
| Second physical rectifier section; electrical properties populated from corresponding identical section. |        |

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](#)

# 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

| OTHER                                             |                 |                               |
|---------------------------------------------------|-----------------|-------------------------------|
| PARAMETER                                         | PUBLISHED VALUE | CONDITION / NOTE              |
| Maximum peak inverse plate voltage                | 1550 V          | —                             |
| Maximum RMS AC plate supply voltage per plate     | 550 V RMS       | —                             |
| Maximum steady-state peak plate current per plate | 1.4 A           | —                             |
| Maximum transient peak plate current per plate    | 4.6 A           | —                             |
| Maximum DC output current                         | 415 mA          | CapacitorInputFilter; 470V AC |
| AC plate supply voltage per plate                 | 300 V RMS       | CapacitorInputFilter          |
| Filter input capacitance                          | 40 uF           | CapacitorInputFilter          |
| DC output current                                 | 380 mA          | CapacitorInputFilter; 300V AC |
| DC output voltage                                 | 300 V           | CapacitorInputFilter; 300V AC |
| AC plate supply voltage per plate                 | 425 V RMS       | CapacitorInputFilter          |
| DC output current                                 | 350 mA          | CapacitorInputFilter; 425V AC |
| DC output voltage                                 | 440 V           | CapacitorInputFilter; 425V AC |
| Filter input choke                                | 10 H            | ChokeInputFilter              |
| DC output current                                 | 350 mA          | ChokeInputFilter              |
| DC output voltage                                 | 390 V           | ChokeInputFilter              |

| CHARACTERISTIC                        |                 |                  |
|---------------------------------------|-----------------|------------------|
| PARAMETER                             | PUBLISHED VALUE | CONDITION / NOTE |
| Tube voltage drop at 350 mA per plate | 42 V            | —                |

Section 2 · Rectifier

| OTHER                                             |                 |                  |
|---------------------------------------------------|-----------------|------------------|
| PARAMETER                                         | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum peak inverse plate voltage                | 1550 V          | —                |
| Maximum RMS AC plate supply voltage per plate     | 550 V RMS       | —                |
| Maximum steady-state peak plate current per plate | 1.4 A           | —                |



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

## TUBE TINKER

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