

ELECTRONIC TUBE REFERENCE

1K3

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
RECTIFIER

High-voltage television flyback/EHT rectifier designed to convert horizontal-output transformer pulses into the DC accelerating supply required by the CRT.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 3C                | BASE PINS            | 6             |
| NOMINAL HEATER      | 1.25 V / 200 mA   | PARALLEL HEATER      | – / –         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

3C - TERMINAL PINOUT

| TERMINAL       | SECTION | ELEMENT           | STATUS    |
|----------------|---------|-------------------|-----------|
| PIN1 – Pin 1   | –       | –                 | IC        |
| PIN2 – Pin 2   | –       | F – Filament      | CONNECTED |
| PIN3 – Pin 3   | –       | –                 | IC        |
| PIN5 – Pin 5   | –       | –                 | IC        |
| PIN7 – Pin 7   | –       | F – Filament      | CONNECTED |
| PIN8 – Pin 8   | –       | –                 | IC        |
| CAP1 – Top cap | A       | P – Plate (Anode) | CONNECTED |

SECTION RATINGS

|                                                                                                            |         |
|------------------------------------------------------------------------------------------------------------|---------|
| <b>SECTION1</b> Rectifier                                                                                  |         |
| <b>PEAK INVERSE VOLTAGE</b>                                                                                | 26000 V |
| <b>NOMINAL OUTPUT CURRENT</b>                                                                              | 0.5 mA  |
| <b>PEAK FORWARD CURRENT</b>                                                                                | 50 mA   |
| <b>FORWARD VOLTAGE DROP</b>                                                                                | 225 V   |
| <i>Flyback rectifier; source calls 1K3 a direct replacement for 1J3, which is not treated as an alias.</i> |         |

1K3 is a Rectifier device. High-voltage diode/half-wave rectifier for television flyback or other high-voltage service.



## 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 |
|-------------------------------|-----------------|------------------|
| PeakInverseVoltageDCComponent | 24000 V         | FlybackRectifier |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

## Section 1 · Rectifier

## CHARACTERISTICS

| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE |
|-------------------------------|-----------------|------------------|
| Filament Voltage              | 1.25 V          | —                |
| Filament Current              | 200 mA          | —                |
| Plate-to-Filament Capacitance | 1.6 pF          | —                |
| Tube Voltage Drop             | 225 V           | PlateCurrent=7mA |

## OTHER

| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE |
|---------------------------------|-----------------|------------------|
| Peak Inverse Plate Voltage      | 26000 V         | Flyback          |
| Steady-State Peak Plate Current | 50 mA           | —                |
| DC Output Current               | 0.5 mA          | —                |



## 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

| OTHER                                      |                 |                  |
|--------------------------------------------|-----------------|------------------|
| PARAMETER                                  | PUBLISHED VALUE | CONDITION / NOTE |
| Filament/heater voltage                    | 1.25 V          | —                |
| Filament/heater current                    | 200 mA          | —                |
| Maximum total DC-plus-peak inverse voltage | —26000 V        | FlybackRectifier |
| Maximum steady-state peak plate current    | 50 mA           | FlybackRectifier |
| Maximum DC output current                  | 0.5 mA          | FlybackRectifier |

| CAPACITANCE                          |                 |                  |
|--------------------------------------|-----------------|------------------|
| PARAMETER                            | PUBLISHED VALUE | CONDITION / NOTE |
| Plate-to-filament/heater capacitance | 1.6 pF          | Approximate      |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 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 |
| Peak inverse plate voltage DC component | 22000 V         | FlybackRectifier |
|                                         |                 |                  |

| PARAMETER                                       | PUBLISHED VALUE | CONDITION / NOTE |
|-------------------------------------------------|-----------------|------------------|
| Peak inverse plate voltage<br>total DC and peak | <b>26000 V</b>  | FlybackRectifier |
| Steady state peak plate<br>current              | <b>50 mA</b>    | FlybackRectifier |
| DC output current                               | <b>0.5 mA</b>   | FlybackRectifier |

| CHARACTERISTIC    |                 |                     |
|-------------------|-----------------|---------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE    |
| Tube voltage drop | <b>225 V</b>    | I <sub>b</sub> =7mA |

| CAPACITANCE                |                 |                  |
|----------------------------|-----------------|------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE |
| Interelectrode capacitance | <b>1.3 pF</b>   | —                |

## TUBE TINKER

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and their source documents.

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