



## ELECTRONIC TUBE REFERENCE

## UY42

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**RECTIFIER**

Single-plate half-wave rectifier for series-heater power supplies. Its 31 V heater and moderate current capability suit transformerless electronic equipment.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 8             |
| NOMINAL HEATER      | 31 V / 100 mA     | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                 |        |
|-------------------------------------------------|--------|
| <b>SECTION1</b> Rectifier                       |        |
| PEAK INVERSE VOLTAGE                            | 700 V  |
| NOMINAL OUTPUT CURRENT                          | 100 mA |
| PEAK FORWARD CURRENT                            | 600 mA |
| MAXIMUM HEATER-CATHODE VOLTAGE                  | 550 V  |
| <i>Single-anode half-wave vacuum rectifier.</i> |        |

Single-plate half-wave rectifier for series-heater power supplies.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1953 La Radiotechnique

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

## 1953 LA RADIOTECHNIQUE

## Section 1 · Rectifier

| CHARACTERISTIC |                         |                  |
|----------------|-------------------------|------------------|
| PARAMETER      | PUBLISHED VALUE         | CONDITION / NOTE |
| Perveance      | 2.6 mA/V <sup>1.5</sup> | —                |

| OTHER                  |                 |                  |
|------------------------|-----------------|------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE |
| FilterCapacitorMaximum | 50 uF           | —                |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1957 Philips Receiving and Amplifying Tubes

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

## 1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

## Section 1 · Rectifier

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Voltage | 31 V            | —                |
| Heater Current | 100 mA          | —                |



# 1963 Philips Electron Tubes Handbook V1

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

## 1963 PHILIPS ELECTRON TUBES HANDBOOK V1

### Section 1 · Rectifier

| OTHER                              |                 |                        |
|------------------------------------|-----------------|------------------------|
| PARAMETER                          | PUBLISHED VALUE | CONDITION / NOTE       |
| Maximum peak inverse voltage       | 700 V           | HalfWave               |
| Maximum DC output current          | 100 mA          | HalfWave               |
| Maximum peak cathode/anode current | 600 mA          | HalfWave               |
| Maximum heater-cathode voltage     | 550 V           | CathodePositive        |
| Maximum filter capacitance         | 50 uF           | CapacitorInputFilter   |
| AC input voltage                   | 110 V RMS       | HalfWave               |
| Minimum series resistance          | 0 ohm           | HalfWave; ACInput=110V |
| DC output voltage                  | 113 V           | HalfWave; ACInput=110V |
| AC input voltage                   | 127 V RMS       | HalfWave               |
| Minimum series resistance          | 0 ohm           | HalfWave; ACInput=127V |
| DC output voltage                  | 135 V           | HalfWave; ACInput=127V |
| AC input voltage                   | 220 V RMS       | HalfWave               |
| Minimum series resistance          | 160 ohm         | HalfWave; ACInput=220V |
| DC output voltage                  | 188 V           | HalfWave; ACInput=220V |
| AC input voltage                   | 250 V RMS       | HalfWave               |
| Minimum series resistance          | 210 ohm         | HalfWave; ACInput=250V |
| DC output voltage                  | 205 V           | HalfWave; ACInput=250V |



# 1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Rectifier

| OTHER            |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| AC Input Voltage | 250 V           | HalfWave         |

| APPLICATION |                           |                  |
|-------------|---------------------------|------------------|
| PARAMETER   | PUBLISHED VALUE           | CONDITION / NOTE |
| Application | PowerSupplyRectifier text | —                |

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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