



## ELECTRONIC TUBE REFERENCE

## DCX41000

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## RECTIFIER

Directly heated noble-gas-filled half-wave rectifier specifically designed for high-voltage mobile rectifier installations, providing approximately 10 kV inverse-voltage capability and moderate output current.

## GENERAL CHARACTERISTICS

|                     |                    |                      |               |
|---------------------|--------------------|----------------------|---------------|
| BASE DESIGNATION    | MEDIUM 4-P BAYONET | BASE PINS            | 4             |
| NOMINAL HEATER      | 2.5 V / 5 A        | PARALLEL HEATER      | – / –         |
| HEATING             | Direct             | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes  | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                   |         |
|-----------------------------------|---------|
| SECTION 1 Rectifier               |         |
| PEAK INVERSE VOLTAGE              | 10000 V |
| NOMINAL OUTPUT CURRENT            | 250 mA  |
| PEAK FORWARD CURRENT              | 1 A     |
| FORWARD VOLTAGE DROP              | 12 V    |
| WARM-UP TIME                      | 10 s    |
| Noble-gas high-voltage rectifier. |         |

A directly heated noble-gas-filled rectifier designed specifically as a high-voltage half-wave rectifier in mobile rectifier installations.



## SOURCE OPERATING CONDITIONS

# 1953 RFT Rundfunk Technik

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

## 1953 RFT RUNDFUNK TECHNIK

## Section 1 · Rectifier

| OTHER                         |                 |                  |
|-------------------------------|-----------------|------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE |
| Inverse voltage maximum       | 10 kV           | —                |
| Peak plate current maximum    | 1 A             | —                |
| Average plate current maximum | 250 mA          | —                |

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Warm-up time         | 30 s            | —                |
| Arc voltage at 0.5 A | 12 V            | —                |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1963 Philips Electron Tubes Handbook V4

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

## 1963 PHILIPS ELECTRON TUBES HANDBOOK V4

## Section 1 · Rectifier

| OTHER                   |                 |                      |
|-------------------------|-----------------|----------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE     |
| Filling                 | Xenon           | —                    |
| Peak inverse voltage    | 10 kV           | HighVoltageCondition |
| Maximum average current | 250 mA          | HighVoltageCondition |

| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE     |
|-----------------------------------|-----------------|----------------------|
| Maximum peak current              | 1 A             | HighVoltageCondition |
| Peak inverse voltage alternate    | 5 kV            | HighCurrentCondition |
| Maximum average current alternate | 500 mA          | HighCurrentCondition |
| Maximum peak current alternate    | 2 A             | HighCurrentCondition |
| Maximum surge current             | 20 A            | —                    |

| CHARACTERISTIC   |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Arc voltage drop | 12 V            | —                |


SOURCE DATA APPENDIX

#### SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1999 Philips 0-D

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

1999 PHILIPS 0-D

## Section 1 · Rectifier

| CONSTRUCTION |                 |                  |
|--------------|-----------------|------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE |
| Filling      | Xenon           | —                |

| OTHER                        |                 |                  |
|------------------------------|-----------------|------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum average current      | 500 mA          | 5kVCase          |
| Maximum average current      | 250 mA          | 10kVCase         |
| Maximum peak inverse voltage | 10 kV           | —                |
| Maximum surge current        | 20 A            | Duration<=0.1s   |
| Ambient temperature range    | -55 to +75 degC | —                |

| CHARACTERISTICS      |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Arc voltage at 0.5 A | 12 V            | —                |

## TUBE TINKER

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and their source documents.

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