

ELECTRONIC TUBE REFERENCE

6U3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Heater-cathode half-wave high-vacuum rectifier designed for television damper service, with 4 kV peak inverse-voltage capability.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 9BM               | BASE PINS            | 9             |
| NOMINAL HEATER      | 6.3 V / 900 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                          |        |
|------------------------------------------|--------|
| SECTION1 Rectifier                       |        |
| PEAK INVERSE VOLTAGE                     | 4000 V |
| NOMINAL OUTPUT CURRENT                   | 180 mA |
| PEAK FORWARD CURRENT                     | 400 mA |
| FORWARD VOLTAGE DROP                     | 16 V   |
| MAXIMUM HEATER-CATHODE VOLTAGE           | 650 V  |
| Half-wave high-vacuum rectifier section. |        |

A heater-cathode half-wave high-vacuum rectifier used in television damper service. The printed table specifies a maximum DC output current of 180 mA and a peak inverse voltage of 4000 V.



## 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 peak inverse voltage | 4000 V          | TVDamper         |
| Maximum DC output current    | 180 mA          | TVDamper         |
| Maximum peak current         | 400 mA          | TVDamper         |

| CHARACTERISTICS      |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Forward voltage drop | 16 V            | At 180 mA DC     |



## 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

| CHARACTERISTICS |                 |                  |
|-----------------|-----------------|------------------|
| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE |
| Heater voltage  | 6.3 V           | —                |
| Heater current  | 900 mA          | —                |

| OTHER                                    |                   |                                                                   |
|------------------------------------------|-------------------|-------------------------------------------------------------------|
| PARAMETER                                | PUBLISHED VALUE   | CONDITION / NOTE                                                  |
| Peak inverse plate voltage               | <b>4000 V</b>     | —                                                                 |
| Peak plate current                       | <b>400 mA</b>     | —                                                                 |
| Average plate current                    | <b>180 mA</b>     | —                                                                 |
| Peak heater-cathode voltage              | <b>650 V</b>      | —                                                                 |
| Pezk inverse plate voltage (see nove     | <b>4000 volts</b> | PublishedLine: Pezk inverse plate voltage (see nove 2) 4000 volts |
| Pezk plate current                       | <b>400 ma</b>     | PublishedLine: Pezk plate current 400 ma                          |
| cathode positive with respect to heater) | <b>650 volts</b>  | PublishedLine: cathode positive with respect to heater) 650 volts |
| D.C. component of heater-cathode voltage | <b>450 volts</b>  | PublishedLine: D.C. component of heater-cathode voltage 450 volts |

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