



## ELECTRONIC TUBE REFERENCE

## 6Y50

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## RECTIFIER

Indirectly heated high-voltage half-wave vacuum rectifier for substantial electronic power supplies. Its 6.3 V heater combines multi-kilovolt capability with useful current output.

## GENERAL CHARACTERISTICS

|                     |                   |                      |         |
|---------------------|-------------------|----------------------|---------|
| BASE DESIGNATION    | S9/25             | BASE PINS            | 9       |
| NOMINAL HEATER      | 6.3 V / 1.65 A    | PARALLEL HEATER      | – / –   |
| HEATING             | Indirect          | SERIES OPERATION     | Capable |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar |

## SECTION RATINGS

|                                                                                      |        |
|--------------------------------------------------------------------------------------|--------|
| SECTION 1 Rectifier                                                                  |        |
| MAXIMUM PLATE DISSIPATION                                                            | 10 W   |
| PEAK INVERSE VOLTAGE                                                                 | 3500 V |
| NOMINAL OUTPUT CURRENT                                                               | 220 mA |
| PEAK FORWARD CURRENT                                                                 | 700 mA |
| <i>Electrical section mapped from published characteristics and maximum ratings.</i> |        |

High-voltage half-wave vacuum rectifier for power-supply service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 195X Tesla

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

195X TESLA

## Section 1 · Rectifier

| OTHER                                    |                 |                  |
|------------------------------------------|-----------------|------------------|
| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE |
| AC plate voltage, half-wave              | 1200 V          | —                |
| Rectified output current, half-wave      | 220 mA          | —                |
| Rectified output voltage, half-wave      | 1350 V          | —                |
| AC plate voltage, full-wave pair         | 850 V           | —                |
| Rectified output current, full-wave pair | 400 mA          | —                |

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1969 Tesla Manual of Electronic Tubes

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

1969 TESLA MANUAL OF ELECTRONIC TUBES

## Section 1 · Rectifier

| CHARACTERISTICS |                 |                         |
|-----------------|-----------------|-------------------------|
| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE        |
| Heater voltage  | 6.3 V           | Published nominal value |
| Heater current  | 1.65 A          | Published nominal value |

| OTHER                     |                 |                             |
|---------------------------|-----------------|-----------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE            |
| Maximum rectified current | 220 mA          | Published half-wave service |