

Mercury relay valve with capacitive ignition for stroboscopes and film projection in television transmitters. Triggered discharge produces controlled high-current pulses.

GENERAL CHARACTERISTICS

|                     |                        |                      |               |
|---------------------|------------------------|----------------------|---------------|
| BASE DESIGNATION    | —                      | BASE PINS            | —             |
| NOMINAL HEATER      | — / —                  | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect; cold cathode | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes      | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                                                                                  |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| SECTION1 Thyratron                                                                                                                                                                               |       |
| MAXIMUM CATHODE CURRENT                                                                                                                                                                          | 3.5 A |
| <i>Promoted only where the locked schema has a direct semantic match; additional CRT, regulator, thyratron, pulse, capacitance, and operating values are retained in TUBE_SECTION_PARAMETER.</i> |       |

Mercury relay valve with capacitive ignition for stroboscopes and film projection in television transmitters.

## SOURCE OPERATING CONDITIONS

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# 1963 Philips Electron Tubes Handbook V3

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

## 1963 PHILIPS ELECTRON TUBES HANDBOOK V3

## Section 1 · Thyatron

| OTHER                                          |                 |                    |
|------------------------------------------------|-----------------|--------------------|
| PARAMETER                                      | PUBLISHED VALUE | CONDITION / NOTE   |
| RMS anode voltage maximum                      | 500 V RMS       | RelayValve         |
| RMS anode voltage minimum                      | 20 V RMS        | RelayValve         |
| Peak inverse anode voltage maximum             | 1500 V          | RelayValve         |
| Average anode current maximum with fan cooling | 3.5 A           | RelayValve         |
| Peak anode current maximum                     | 1000 A          | RelayValve         |
| Ignition voltage maximum                       | 25 V            | CapacitiveIgnition |
| Repetition frequency maximum                   | 300 Hz          | RelayValve         |
| Ignitor pulse voltage                          | 12 to 15 kV     | CapacitiveIgnition |
| Ignitor current maximum                        | 100 mA          | CapacitiveIgnition |

| CHARACTERISTIC                  |                 |                    |
|---------------------------------|-----------------|--------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE   |
| Arc voltage drop                | 15 V            | FanCooling         |
| Input energy per ignition cycle | 12 to 25 mWs    | CapacitiveIgnition |

| CAPACITANCE                    |                 |                  |
|--------------------------------|-----------------|------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
| Ignitor-to-cathode capacitance | 10 pF           | Section1         |

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# 1999 Philips E-Z

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

1999 PHILIPS E-Z

## Section 1 · Thyatron

| OTHER                         |                 |                  |
|-------------------------------|-----------------|------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum anode voltage         | 500 V           | —                |
| Maximum inverse anode voltage | 1500 V          | —                |
| Maximum ignition voltage      | 25 V            | —                |