



## ELECTRONIC TUBE REFERENCE

# 5801

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**

CONSTRUCTION

**TRIODE**

Victoreen 5801 (VX-33A) directly heated subminiature high-mu triode for low-power DC amplification in radiation-measuring instruments.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 1.25 V / 10 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>SECTION 1</b> Triode                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
| TRANSCONDUCTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.00015 S |
| AMPLIFICATION FACTOR                                                                                                                                                                                                                                                                                                                                                                                                                                | 30        |
| MAXIMUM CATHODE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.5 mA    |
| <i>Victoreen 5801 VX-33A high-mu instrument DC triode. Direct filament 1.25 V 10 mA (1.12-1.5 V), max total cathode current 500 <math>\mu</math>A, leakage resistance grid-to-all <math>\geq 10^{14} \Omega</math>. At plate 135 V and grid -2 V plate current 100-300 <math>\mu</math>A (nominal 200 <math>\mu</math>A), at grid -5 V <math>\leq 1 \mu</math>A. Nominal gm 0.00015 A/V and mu 30. Plate 135 V is a test point, not max rating.</i> |           |

Subminiature low-filament-power triode for DC voltage amplifiers and measuring instrumentation.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1950 Victoreen

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

## 1950 VICTOREEN

## Section 1 · Triode

| CHARACTERISTIC       |                     |                        |
|----------------------|---------------------|------------------------|
| PARAMETER            | PUBLISHED VALUE     | CONDITION / NOTE       |
| Filament Voltage     | 1.12–1.5 V          | —                      |
| Filament Current     | 10 mA               | Nominal                |
| LeakageResistance    | 100000000000000 ohm | GridToAllOtherElements |
| Transconductance     | 150 umho            | —                      |
| Amplification Factor | 30                  | —                      |

| OTHER         |                 |                         |
|---------------|-----------------|-------------------------|
| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE        |
| Plate Current | 100–300 uA      | Ef=1.25V Eb=135V Ec=-5V |

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