



## ELECTRONIC TUBE REFERENCE

## U31

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## RECTIFIER

Marconi indirectly heated half-wave rectifier for voltage-doubler and capacitor-input power supplies, providing moderate current in series-heater equipment.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 26 V / 300 mA     | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                |        |
|--------------------------------|--------|
| SECTION 1 Rectifier            |        |
| PEAK INVERSE VOLTAGE           | 710 V  |
| NOMINAL OUTPUT CURRENT         | 120 mA |
| PEAK FORWARD CURRENT           | 720 mA |
| MAXIMUM HEATER-CATHODE VOLTAGE | 350 V  |

The Marconi U31 is a indirectly heated half-wave rectifier for voltage-doubler and capacitor-input service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1955 Marconi

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

## 1955 MARCONI

## Section 1 · Rectifier

| OTHER                          |                 |                  |
|--------------------------------|-----------------|------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
| Heater/filament voltage        | 26 V            | —                |
| Heater/filament current        | 300 mA          | —                |
| Peak inverse voltage           | 710 V           | —                |
| Nominal/maximum output current | 120 mA          | —                |
| Peak anode current             | 720 mA          | —                |
| Maximum heater-cathode voltage | 350 V           | —                |
| Surge anode current            | 2.4 A           | —                |

| CONSTRUCTION       |                 |                  |
|--------------------|-----------------|------------------|
| PARAMETER          | PUBLISHED VALUE | CONDITION / NOTE |
| Rectifier topology | Half-wave       | —                |