



ELECTRONIC TUBE REFERENCE

7631

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Rugged long-life double diode designed for clamping and pulse-shaping applications, with construction optimized for cutoff operation and frequent heater switching.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode

PEAK INVERSE VOLTAGE	360 V
MAXIMUM HEATER-CATHODE VOLTAGE	300 V

Primary electrical section; identical repeated sections compressed where applicable.

SECTION2 Diode

No fixed ratings recorded.

Second physical diode section added in approved section-structure reconciliation.

The 7631 is a seven pin 211 glass construction double diode suitable for clamping and pulse shaping applications, The use of a special rugged electrode construction manufactured by means of semi-automatic assembly techniques contributes to a low catastrophic failure rate. The cathode sleeve is made of a special alloy to inhibit the growth of cathode interface resistance during long periods of operation under cut-off conditions and the pure tungsten heater has been designed to withstand frequent heater

switching (sec note)., In addition the heater-cathode construction and materials ensure very low levels of leakage throughout life, The glass base and envelope strain patterns are tightly

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1954 STC Brimar

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

1954 STC BRIMAR

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage 120% of nominal value: heater-cathode voltage 240V r.m.s:	240 V	voltage 120% of nominal value: heater-cathode voltage 240V r.m.s:
Voltage (ac or dc) 6.3 volts	6.3 V	Voltage (ac or dc) 6.3 volts
Hexinum heater cathode VOLEAEE ecescasscososssessa 300 volts	300 V	Hexinum heater cathode VOLEAEE ecescasscososssessa 300 volts
Haxinmun peak inverse anode vOlEoSCG veseoncesccasess 360 vOlts	360 V	Haxinmun peak inverse anode vOlEoSCG veseoncesccasess 360 vOlts