

ELECTRONIC TUBE REFERENCE

10D1

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
DIODE-DIODE

Double-diode receiving valve for detector and low-level signal-rectification duties in radio receivers. Two diode sections provide paired detection or control-voltage functions from one compact envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM CATHODE CURRENT	1 mA
Brimar 10D1 double-diode receiver detector/low-level rectifier. One of two physical diode sections; 13.0 V, 0.2 A heater. Manufacturer lists maximum rectified current 1.0 mA and maximum RMS input 50 V, which is not a continuous DC positive anode-voltage maximum. Physical diode sections are separate, not compressed.	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	1 mA
Second physical detector diode of Brimar 10D1, using a common 13.0 V, 0.2 A heater. Maximum rectified current 1.0 mA per manufacturer and 50 V RMS input limit; the latter must not be confused with a DC anode maximum. Both diode sections represented individually.	

10D1 Double Diode Vacuum Tube

The **10D1** is a vacuum tube designated as a double diode, primarily intended as a replacement type. It features an English base configuration and is designed for low-current rectification or detection

applications.

Overview

The 10D1 is a specialized double diode vacuum tube designed for replacement purposes. It is housed in a glass envelope and utilizes a classic English base. The device is characterized by a 13.0-volt heater and is rated for low-current, low-voltage applications, with a maximum rectified current of 1.0 mA.

Physical Specifications and Pin Configuration

The 10D1 is constructed with a glass bulb envelope. Its physical dimensions are specified as follows:

- **Maximum Diameter:** 1 9/16 inches
- **Maximum Overall Height:** 3 1/16 inches

The tube features a 5-pin English base. The pin assignments, as viewed from the bottom of the tube base, are:

- **Pin 1:** Diode 1 (DI)
- **Pin 2:** Diode 2 (D2)
- **Pin 3:** Heater (H)
- **Pin 4:** Heater (H)
- **Pin 5:** Cathode (C)

A metallisation or shield connection, designated as **S**, is also indicated on the outer perimeter of the base diagram.

Electrical Characteristics and Ratings

The electrical parameters of the 10D1 are defined by its heater requirements and its maximum operating limits. The tube's key electrical characteristics include:

- **Heater Voltage:** 13.0 volts
- **Heater Current:** 0.2 amperes
- **Maximum R.M.S. Input Voltage:** 50 volts
- **Maximum Rectified Current:** 1.0 mA

These ratings indicate that the 10D1 is designed for small-signal detection or low-power rectification tasks, where high voltage and high current handling are not required.

Characteristic Curves

No individual characteristic curves are published directly for the 10D1. Instead, the operating curves and diode characteristics of this tube are equivalent to those of the [6AL5](#) double diode. For detailed graphical analysis of diode behavior, plate current, and voltage relationships, reference must be made to the characteristic curves of the [6AL5](#).

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS Input	50 V	Maximum
Rectified Current	1 mA	Maximum

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