



ELECTRONIC TUBE REFERENCE

TDD2A

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Directly heated battery double-diode triode combining detector and amplifier functions. Paired diodes provide signal and control-voltage rectification while the triode amplifies the recovered signal in accumulator-powered receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	2 V / 120 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

MAXIMUM CATHODE CURRENT 0.2 mA

Mullard TDD2A first physical diode, assigned to AVC detection (pin 2). The directly heated common 2.0 V, 0.12 A filament serves both diodes and the triode. Diode maximum anode current 0.2 mA and peak inverse anode voltage 125 V; the latter is a peak reverse rating, not a continuous positive anode voltage. Both physical diodes are separately represented.

SECTION2 Triode	
PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	0.6 W
MAXIMUM CATHODE CURRENT	5 mA
<i>Mullard TDD2A directly heated battery double-diode triode, using a common filament. Maximum triode anode voltage 150 V, plate dissipation 0.6 W and cathode current 5 mA. Typical gm 0.7 mA/V and internal resistance 43 kΩ at 90 V plate, versus gm 1.2 mA/V and resistance 25 kΩ at 135 V plate; amplification factor 30. Control grid uses a top cap; the five-pin base has the two separate diode anodes and filament connections.</i>	

SECTION3 Diode	
MAXIMUM CATHODE CURRENT	0.2 mA
<i>Mullard TDD2A second physical diode, used as speech detector on pin 5. Separate diode shares the directly heated filament with the first diode and triode. Maximum diode anode current 0.2 mA; peak inverse anode voltage 125 V. Peak reverse rating is not a continuous positive anode limit.</i>	

Battery-operated double-diode triode with common filament for detector and amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Mullard Receiving Tubes

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

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Section 1 · Diode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Signal detection	—

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Section 2 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	AF amplification	—

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