



ELECTRONIC TUBE REFERENCE

TDD4

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Indirectly heated double-diode triode for detector, AVC, and low-frequency amplifier service. Two diodes provide signal and control rectification while the triode supplies the subsequent amplifier stage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	4 V / 650 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

MAXIMUM CATHODE CURRENT 0.8 mA

Mullard TDD4 first physical diode for signal detection/automatic volume control service in an indirectly heated double-diode triode. Shared cathode with second diode and triode, 4 V 0.65 A heater. Maximum diode anode current 0.8 mA and peak inverse anode voltage 200 V; the latter must not be construed as continuous forward anode limit. Both diode systems are represented separately.

SECTION2 Triode	
PLATE RESISTANCE	13500 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
Mullard TDD4 indirectly heated double-diode triode for detector, AVC and low-frequency amplifier stages. Typical triode operation at anode 250 V, grid -7 V and plate current 4 mA: gm 2.0 mA/V, amplification factor 27, anode resistance 13.5 k Ω . Maximum triode anode voltage 250 V, anode dissipation 1.5 W and cathode current 10 mA. Both diodes and triode share the indirectly heated cathode.	

SECTION3 Diode	
MAXIMUM CATHODE CURRENT	0.8 mA
Mullard TDD4 second physical diode for detector and AVC rectification service. The two separate diodes and triode share a common indirectly heated cathode. Maximum diode anode current 0.8 mA and peak inverse anode voltage 200 V; do not treat peak inverse voltage as positive continuous anode rating.	

Indirectly heated double-diode triode for detector, AVC, and LF 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 / AVC	—

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Section 2 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	LF amplification	—

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