



ELECTRONIC TUBE REFERENCE

TDD13C

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode medium-mu triode for detector, AVC, and low-frequency amplification in AC/DC receivers. The paired diodes provide signal and control-voltage rectification while the triode amplifies the recovered audio signal.

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	Dissimilar

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	200 V
<i>Representative of two detector diode sections.</i>	
SECTION2 Triode	
PLATE RESISTANCE	13500 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	100 mA
<i>LF amplifier triode section.</i>	

SECTION3 Diode

MAXIMUM PLATE VOLTAGE

200 V

Physical diode section added during approved section-structure reconciliation.

The Mullard TDD13C combines two detector/AVC diodes with a triode for low-frequency amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Diode Anode Voltage	200 V	EachDiode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-Diode1 Capacitance	2.5 pF	—
Cathode-Diode2 Capacitance	3.25 pF	—
Diode1-Diode2 Capacitance	0.3 pF	—

1963 MULLARD

Section 2 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	13 V	—
Heater Current	200 mA	—
Heating Time	60 s	—
Plate Voltage	200 V	—
Plate Current	4 mA	—
Grid Voltage	-5 V	—
Transconductance	2000 uS	—
Plate Resistance	13500 ohm	—
Amplification Factor	27 ratio	—
Grid-Cathode Capacitance	3.5 pF	—
Plate-Cathode Capacitance	2.9 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Output Voltage	37 V	ResistanceCoupledAmplifier; Distortion=5Percent
Maximum Plate Voltage	200 V	—
Maximum Plate Dissipation	1.5 W	—
Maximum Cathode Current	100 mA	—

TUBE TINKER

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and their source documents.

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