

ELECTRONIC TUBE REFERENCE

6BD7

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

CONSOLIDATED TECHNICAL DATA

2 SECTIONS
CONSTRUCTION
DIODE-TRIODE

Duplex-diode high-mu triode designed for detector and Class-A voltage-amplifier service in radio receiving circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	—
NOMINAL HEATER	6.3 V / 230 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	200 V
NOMINAL OUTPUT CURRENT	0.8 mA
Representative identical diode section; repeated physical diodes compressed.	

SECTION2 Triode	
PLATE RESISTANCE	58000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
Duplex-diode high-mu triode for detector and Class-A voltage-amplifier service.	

Duplex-diode high-mu triode for detector and Class-A voltage-amplifier service. Published ratings, characteristics, capacitances, and representative operating conditions were extracted from the approved manual page where available.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA; OperatingPoint1
Control-grid bias	3 V	ClassA; OperatingPoint1
Plate current	1 mA	ClassA; OperatingPoint1
Plate resistance	58000 ohm	ClassA; OperatingPoint1
Transconductance	1200 uS	ClassA; OperatingPoint1
Amplification factor	70	ClassA; OperatingPoint1



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum diode plate voltage	200 V	—
Maximum diode current	0.8 mA	—

1999 PHILIPS 0-D

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	230 mA	—
Plate voltage	250 V	—
Plate current	1 mA	—
Transconductance	1200 uS	—
Plate resistance	58000 ohm	—
Amplification factor	70	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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