



ELECTRONIC TUBE REFERENCE

6CV7

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode high-mu triode providing detector diode sections and a high-gain triode for receiving and signal-amplifier applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	OCTAL	BASE PINS	—
NOMINAL HEATER	6.3 V / 230 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	54000 Ω
TRANSCONDUCTANCE	0.0013 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	5 mA

SECTION2 Diode	
MAXIMUM PLATE VOLTAGE	200 V
NOMINAL OUTPUT CURRENT	0.8 mA
<i>Representative of two diode systems.</i>	

SECTION3 Diode

No fixed ratings recorded.

Second physical Diode section added for documented double-diode triode construction.

Double-diode high-mu triode. The supplied Philips/JETEC/RTMA sheet was read for heater data, section ratings, characteristics, operating conditions, and capacitances, with repeated identical sections compressed only where the locked workflow allows.

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	230 mA	—
Plate voltage	250 V	—
Plate current	1 mA	—
Transconductance	1300 μ S	—
Plate resistance	54000 ohm	—
Amplification factor	70	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode grid-cathode capacitance	2.75 pF	—
Triode plate-grid capacitance	1.3 pF	—

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Section 2 · Diode

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