



ELECTRONIC TUBE REFERENCE

6C7

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 audio amplifier service. Paired diodes provide signal and control-voltage rectification while the triode favors useful current drive over exceptionally high voltage gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7G	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	16000 Ω
TRANSCONDUCTANCE	0.00125 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	250 V
Published maximum ratings, operating characteristics, rectifier data, and capacitances reviewed.	

SECTION2 Diode	
No fixed ratings recorded.	
Published maximum ratings, operating characteristics, rectifier data, and capacitances reviewed.	

SECTION3 Diode

No fixed ratings recorded.

Published maximum ratings, operating characteristics, rectifier data, and capacitances reviewed.

The 6C7 is a DualDiodeTriode vacuum tube as described by the source datasheet.

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 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published handbook rating
Plate voltage	250 V	ClassA
Control-grid bias	9 V	ClassA
Plate current	5.5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	16000 ohm	Published handbook characteristic
Transconductance	1250 μ S	Published handbook characteristic
Amplification factor	20	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Plate voltage	250 V	Typical operating conditions
Plate current	4.5 mA	Typical operating conditions

1961 TUNG SOL

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Plate voltage	250 V	Typical operating conditions
Plate current	4.5 mA	Typical operating conditions

1961 TUNG SOL

Section 3 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Plate voltage	250 V	Typical operating conditions
Plate current	4.5 mA	Typical operating conditions