



ELECTRONIC TUBE REFERENCE

6SR7

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode triode combining radio detector and AVC rectification with subsequent voltage amplification. The paired diodes handle signal and control-voltage functions while the triode provides receiver audio or voltage gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	80	BASE PINS	8
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 Diode

No fixed ratings recorded.

Published promoted fields populated from printed headings; identical repeated sections compressed.

SECTION2 Triode

PLATE RESISTANCE	8500 Ω
TRANSCONDUCTANCE	0.0019 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W

Published promoted fields populated from printed headings; identical repeated sections compressed.

SECTION3 Diode

No fixed ratings recorded.

Physical diode section added during approved section-structure reconciliation.

Two diodes and a medium-mu triode combined for detector, rectifier, and amplifier service.

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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	3.6 pF	—
Output capacitance	2.8 pF	—
Grid-plate capacitance	2.4 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Grid voltage	-9 V	ClassA
Plate current	9.5 mA	ClassA

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	8500 ohm	ClassA
Transconductance	1900 uS	ClassA
Amplification factor	16	ClassA

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TriodeTransconductance	1900 uS	Section2

TUBE TINKER

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and their source documents.

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