

ELECTRONIC TUBE REFERENCE

6AS7

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dual low-mu high-current power triode developed primarily for series-pass voltage-regulator service. Very low plate resistance and substantial current capability make its two sections effective control elements in stabilized DC supplies and other high-current circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8BD	BASE PINS	8
NOMINAL HEATER	6.3 V / 2.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8BD - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2G1	B	G1 – Control Grid	CONNECTED
PIN2 – 2P	B	P – Plate (Anode)	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – 1G1	A	G1 – Control Grid	CONNECTED
PIN5 – 1P	A	P – Plate (Anode)	CONNECTED
PIN6 – 1K	A	K – Cathode	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	280 Ω
TRANSCONDUCTANCE	0.0055 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	13 W
<i>Representative promoted row for two identical physical triode sections.</i>	

SECTION2 Triode	
PLATE RESISTANCE	280 Ω
TRANSCONDUCTANCE	0.0055 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	13 W
<i>Second identical physical triode section; added to align physical section rows with SectionCount.</i>	

The Svetlana™ 6AS7 is a glass envelope, dual power triode with high transconductance and high plate current capacity. Each triode has a plate dissipation rating of 13 Watts with convection cooling. It is intended for low distortion audio frequency power amplification service in either single or push-pull/parallel tube applications. The Svetlana 6AS7 has an indirectly-heated unipotential cathode. The heater may be DC operated for the absolute best hum/noise performance. The Svetlana 6AS7A was originally designed as a series pass tube in regulated power supplies. Low plate resistance makes it an excellent choice in OTL and other high performance audio circuits. Close manufacturing specification tolerances and improved processing provides enhanced reliability and superior sonic performance. The Svetlana 6AS7 is manufactured in the Svetlana factory in Russia, and is designed to be a direct replacement for any 6AS7.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

199X Svetlana

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

199X SVETLANA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	2.5 A	Nominal
Maximum Plate Voltage	250 V	—
Maximum Plate Dissipation	13 W	—

TUBE TINKER

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