



TAD – EL34-SVT High Performance Audio Beam Power Pentode



The **TAD EL34-SVT** is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for any EL34/6CA7 or equivalent. The **TAD EL34-SVT** / Svetlana™ EL34 is a glass envelope power pentode having a plate dissipation rating of 25 Watts with convection cooling.

It is intended for audio frequency power amplification service in either pentode, ultra-linear or triode connection and single or push-pull/parallel applications.

The Svetlana EL34 is very dependable and a recommended choice for combo amps. Somewhat lower power but nice balanced tone with fine heights, very detailed and musical mids and not too much bass.

The **TAD EL34-SVT** is selected out of the original Svetlana-Factory production in St. Petersburg (winged -C- logo).

The **TAD EL34-SVT** is identical to the stock tube used by Marshall for the JCM2000 TSL/DSL series. It is the only EL34 version we do recommend to use with this amp models.

Characteristics

Electrical

Heater:	Min.	Nom.	Max.
Voltage (AC or DC)	5.7	6.3	6.9
Current	1.6 A		
Cathode:	Oxide-coated, unipotential		
Cathode-to-heater potential, max.	100 V		
Direct interelectrode capacitances, max.***			
Grid no.1 to cathode and grid no.3, grid no.2, base sleeve and heater	<16 pF		
Plate to cathode and grid no.3, grid no.2, base sleeve and heater	<0.6 pF		
Grid no.1 to plate	<1.1 pF		

Mechanical

Operating Position	Any
Base	octal, 8-pin
Dimensions:	
Height	113 mm (4.45 in.)
Seated height	98 mm (3.86 in.)
Diameter	32 mm (1.26 in.)
Cooling	Convection
Approximate net weight	60 g (2.1 oz.)

***Without external shielding, nominal values

AF Power Amplifier

Maximum ratings

DC plate voltage	800 V
Grid no.2 DC (screen) voltage	500 V
Grid no.1 (control) voltage	- 100 V
DC cathode current	150 mA
Plate dissipation	25 W
Grid no.2 DC (screen) dissipation	8 W
Bulb temperature (surface hottest point)	250° C

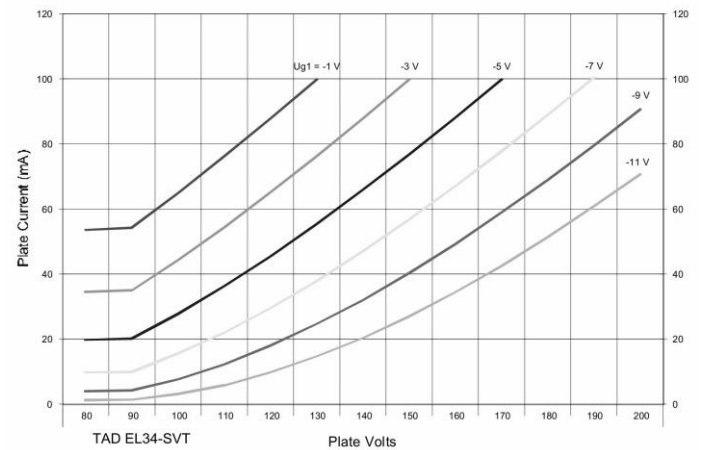
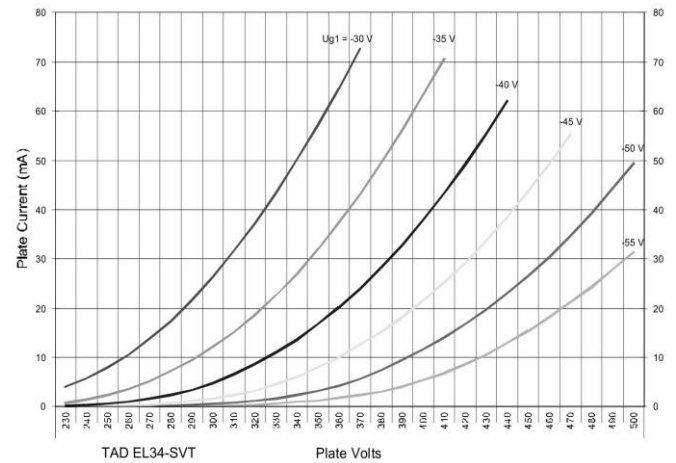
Typical Operation

AF Power Amplifier, Class A1 (single tube)

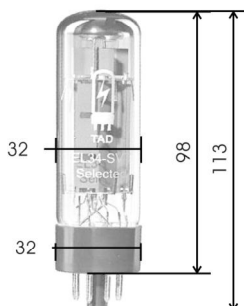
Plate Voltage	250 V
Grid 2 Screen Voltage	250 V
Grid 1 Control Voltage*	-14 V
Peak AF Grid 1 Control Voltage	14 V
Zero Signal Plate Current	100 mA
Maximum Signal Plate Current	105 mA
Zero Signal Grid 2 Screen Current (avg)	15 mA
Transconductance (nominal)	9500 mS
Load Resistance	2000 Ohms
Output Power at 5% distortion	10 W

* Approximate Value (set to zero signal plate current)

Typical Performance EL34-SVT Curves



Outline View



Bottom View

Octal Base Connections

