



SVETLANA TECHNICAL DATA

572B

High-Mu Power Triode

The Svetlana™ 572B is a high-mu power triode intended for use in class AB, class B and class C RF and Audio amplifiers. The Svetlana 572B features a massive graphite anode for high peak overload capability and a high average plate dissipation of 160 Watts. The Svetlana 572B also features a low loss ceramic base and a bonded-ceramic plate cap thermal insulator for high power RF transmitting tube capability.

The Svetlana 572B has a superior getter system based on titanium adhered to the external surface of the graphite anode. The titanium coating covers the entire anode area extended by the inherent micro surface roughness of graphite. The Svetlana 572B envelope is fabricated from hard glass intended specifically for the high-temperature operation of transmitting tubes.

The internal tube parts are supported by low loss ceramic insulators for high-temperature operation and high voltage hold-off. The internal structure is well supported and is aligned with respect to the base pins to avoid internal shorts in equipment designed for horizontal tube mounting.

The Svetlana 572B may be used as a direct drop-in replacement in equipment designed for the 811A, T160L or 572B.

Characteristics

Electrical

Filament:	Thoriated-tungsten
Voltage (AC or DC)	6.3 V $\pm$ 0.3V
Current	4 A
Amplification factor (average)	170
Direct interelectrode capacitances:	
Grid to plate	6.0pF
Grid to filament	5.9 pF
Plate to filament	0.8 pF
Maximum frequency for full ratings	30 MHz

Mechanical

Cooling	Radiation and forced air
Base	Ceramic, standard small four pin
Plate cap	Standard medium cap 14 mm dia. with ceramic thermal insulation
Plate connector	Svetlana PC-1A or equivalent
Socket	Svetlana SK4A, Standard small, four contact
Operating position-Axis vertical, base down or horizontal w/ pins 1 and 4 in vertical plane	

Nominal dimensions:

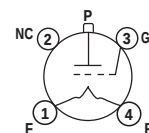
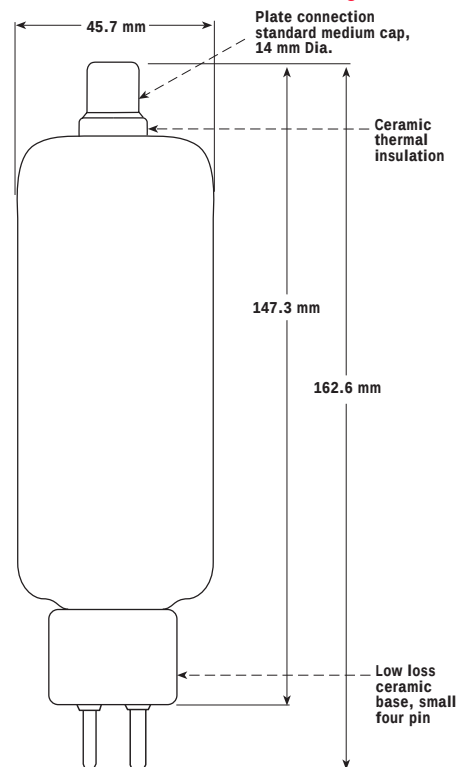
Diameter	45.7 mm (1.8 in.)
Base to plate cap	147.3 mm (5.8 in.)
Overall height	162.6 mm (6.4 in.)
Net weight	113 gm

Linear RF Power Amplifier, Class B Grounded Grid, Maximum ratings

	ICAS*
DC plate voltage	2750 V
DC plate current	275 mA
Plate dissipation	160 W
DC Plate input	600 W
DC Grid current	50 mA

*Intermittant commercial and amateur service

Svetlana Outline drawing



Base pin connections,
bottom view

Notes:

The internal structure is aligned with respect to the base pins to avoid internal shorting problems in equipment designed for horizontal tube mounting.



Svetlana
ELECTRON DEVICES

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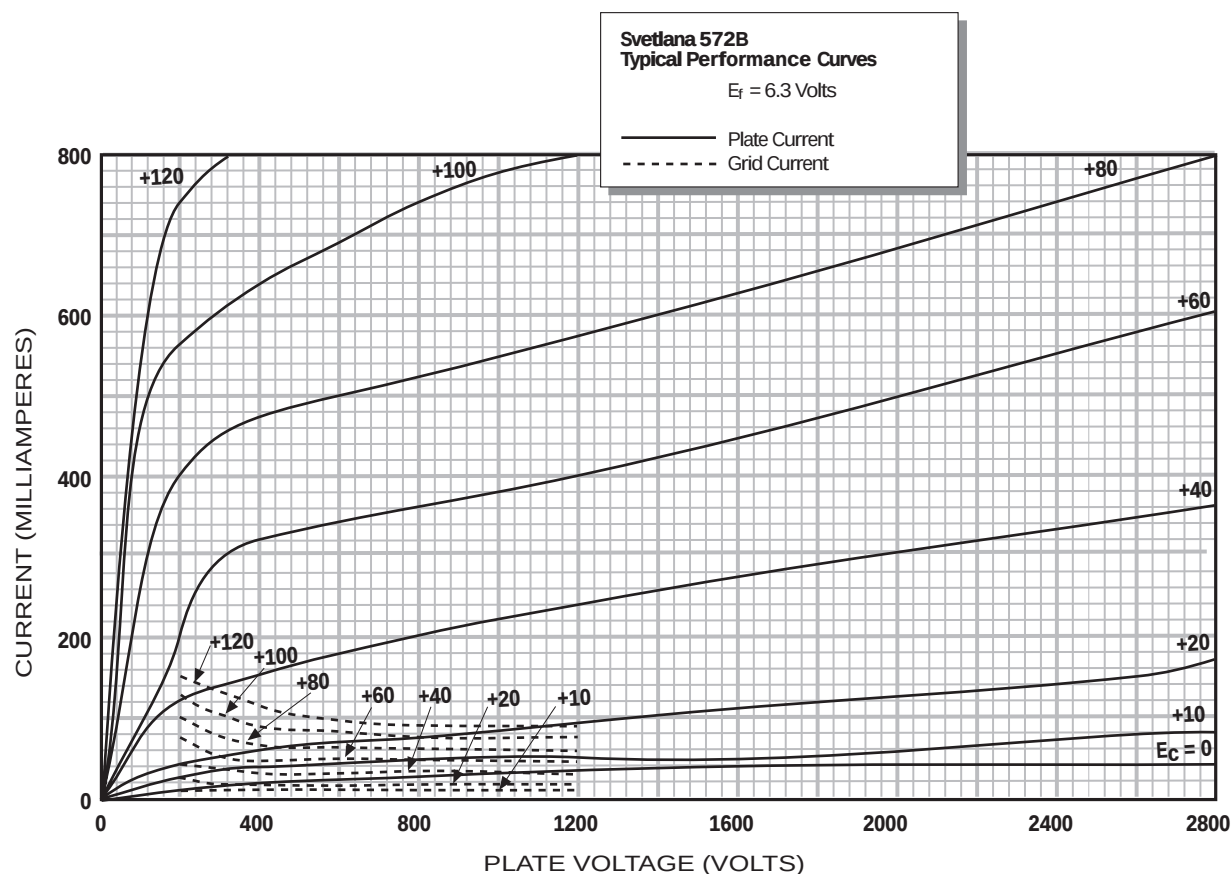
Typical Operation, Grounded Grid Linear Amplifier

(frequencies to 30 MHz)		ICAS**
DC plate voltage	2400	V
DC grid voltage	-2	V
Zero-signal DC plate current **	45	mA
Single-tone DC plate current	250	mA
Driving power	50	W
Single-tone useful output power **	300	W

** Approximate value

Mechanical Application

Mounting: The Svetlana 572B may be operated with its axis vertical and the base down, or horizontally with pins 1 and 4 in a vertical plane.



Versions of the 572B designed for audio amplifier service are available.
Ask for SV572 Series data.