

SVETLANA SV811-3 & SV811-3A

Low-Mu Power Triode

Power triode, medium 4-pin base. Thoriated-tungsten filament, hard glass envelope for high temperature operation and rugged metal anode. Low mu, very low distortion, suitable for single-ended or push-pull amplifiers in Class A1, AB1 or AB2 operation.

Electrical

Filament	Thoriated-tungsten	
Voltage (AC or DC)	6.3 $\pm$ 0.3	V
Current	4	A
Amplification factor (nominal)	3.5	
Transconductance (nominal)	1700	μ S
Plate resistance (nominal)	2000	Ω
Interelectrode capacitances (typical), with filament grounded:		
Grid to plate	8	pF
Grid to filament	7	pF

SV811-3

Maximum Ratings

DC plate voltage	800	V
Maximum-signal DC plate current	160	mA
Plate dissipation	65	W
Grid current	50	mA

Typical Operation, Single Tube, Class A

Class of Operation	A1	A1	A2	
DC plate voltage	450	800	450	V
Grid voltage	-65	-165	-65	V
Peak grid drive	130	300	280	V P-P
DC plate current, zero signal	80	80	80	mA
DC plate current, max. signal	83	90	105	mA
Plate load resistance	5000	5000	5000	Ω
Distortion at max. output	0.2	1.0	1.0	%
Power output at distortion above	3.2	15.4	12.4	W

Typical Operation, Push-Pull, Two Tubes

Class of Operation	AB1	AB1	AB2	
DC plate voltage	450	750	750	V
Grid voltage	-80	-178	-178	V
Peak grid drive, grid-to-grid	328	720	880	V P-P
DC plate current, zero signal	150	150	150	mA
DC plate current, max. signal	155	215	238	mA
Plate load resistance	9600	9600	9600	Ω
Distortion at max. output	0.12	3.0	5.0	%
Power output at distortion above	10	49	66	W

(Note: allow for contact potential and secondary emission in grid biasing.)

SV811-3A

