



SVETLANA SV83

AUDIO POWER PENTODE

Miniature glass-envelope power pentode intended for use as a driver or output device in high-quality audio amplifiers. Features include plate dissipation 12 watts; low distortion; high transconductance; internally shielded for low hum pickup; and pinout compatibility—EL84 can be used in an SV83 circuit without modification. The highly linear SV83 is similar to the EL84 with the exception of basing connections and screen-grid ratings.

Electrical

Cathode	Oxide-coated, unipotential	
Heater voltage (AC or DC)	6.3 ± 0.6	V
Heater current	760 ± 60	mA
Heater-cathode voltage	± 100	V _{peak}
Amplification factor (nominal)	25	
Transconductance (nominal)	15,000	μ S
Interelectrode capacitances (typical), with cathode grounded:		
Grid to cathode	13.5	pF
Plate to cathode	7.0	pF
Grid to plate	0.07	pF

Maximum Ratings

DC plate voltage	300	V
Plate dissipation	12	W
Grid 2 DC (screen) voltage	200	V
Grid 2 (screen) dissipation	1.5	W
Cathode current, continuous	90	mA
Grid 1 DC (control) voltage	-450	V
Maximum grid-circuit resistance (self-bias)	1M	Ω
Envelope temperature	200°	C

