

TWIN TRIODE

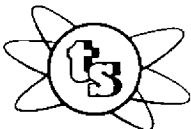
TYPE 7892

The Tung-Sol 7892 is a medium μ , high perveance, twin triode intended only for pulse amplifier and oscillator service. Each triode section is electrically independent, although the two heaters have a common connection permitting either 6.3 Volt or 12.6 Volt heater operation.

Cathode	Coated Unipotential
Outline drawing	JEDEC 6-2
Maximum diameter	.875 inches
Maximum overall length	2.118 inches
Maximum seated height	1.312 inches
Bulb	T-6 1/2
Base	Miniature button 9-pin JEDEC E9-1
Basing Diagram	JEDEC 9H
Pin 1 - Triode 2 plate	Pin 6 - Triode 1 cathode
Pin 2 - Triode 2 grid	Pin 7 - Triode 1 grid
Pin 3 - Triode 2 cathode	Pin 8 - Heater center tap
Pin 4 - Heater	Pin 9 - Triode 1 plate
Pin 5 - Heater	
Mounting Position	Any

<u>Heater Characteristics and Ratings-Design Maximum System^A</u>		
When connected to pins:	8 and 4 - 5	4 and 5
Heater voltage	6.3±0.3	12.6±0.6 volts
Heater current at center voltage	900	450 ma
Maximum heater-cathode voltage		
Total dc and peak		±200 volts

Grid to plate - each triode	4.0 pf
Input: g to(h+k) - each triode	4.0 pf
Output: p to(h+k)- triode 1	0.6 pf
triode 2	0.5 pf
Grid to grid - maximum	.025 pf
Plate to plate - maximum	.75 pf



TUNG-SOL ELECTRIC INC.

RADIO AND TELEVISION TUBE DIVISION

BLOOMFIELD, N. J., U. S. A.

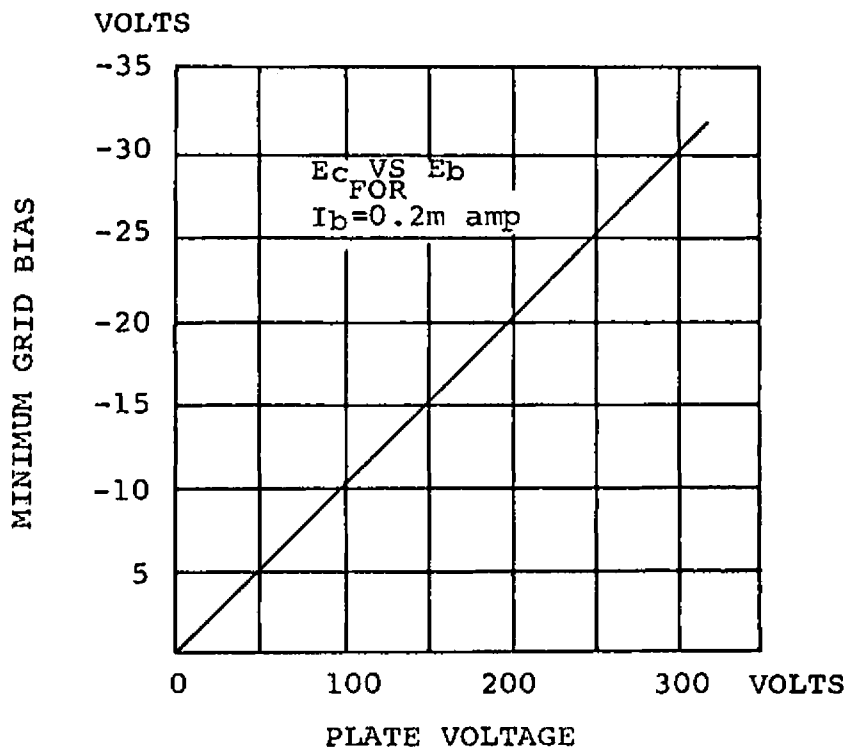
ELECTRICAL DATA-Cont'dMaximum Ratings-Design-Maximum System^A

Plate to cathode voltage-Pulse amplitude ^B	330 volts
Spike amplitude ^B	1000 volts
Grid to cathode voltage - DC positive	0 volts
DC negative	100 volts
Peak positive	200 volts
Peak negative	200 volts
Plate dissipation - each plate	4.2 watts
both plates	7.5 watts
Grid dissipation - each grid	1.0 watts
Cathode current-see rating chart page 3	
Grid circuit resistance	1.1 megohm
Bulb temperature - at hottest point	225 °C
Altitude ^C	60,000 feet

Typical Operating Conditions and Characteristics

Pulse amplifier - each unit

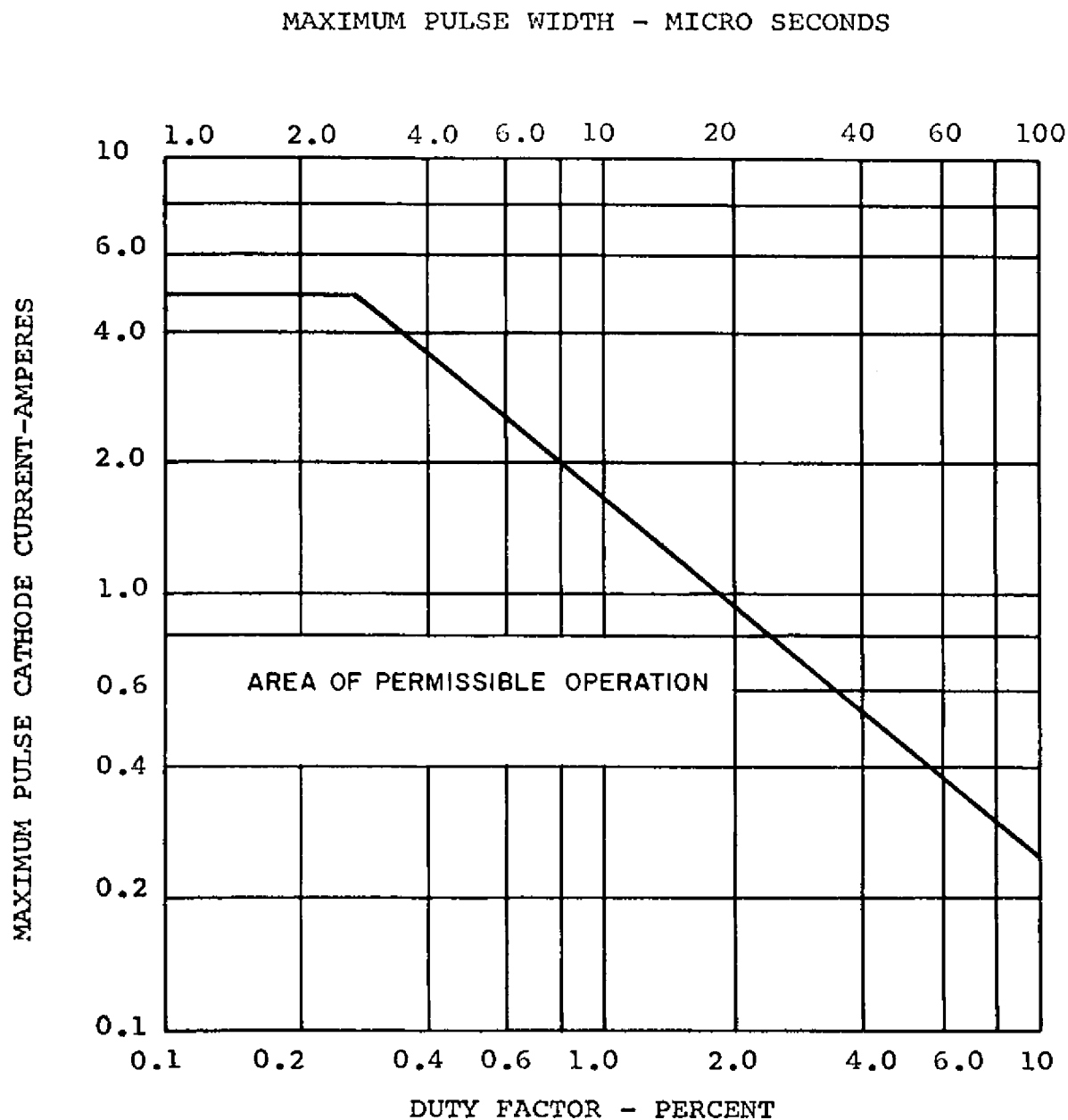
Plate voltage	+175 volts
Grid voltage	+175 volts
Peak cathode current	5.0 amps
Ratio plate current to grid current	1.5
Plate current cut-off - see curve below	



Notes:

- Limiting values beyond which normal tube life and normal tube performance may be impaired.
- For definition of terms, refer to MIL-E-1D, paragraph 4.10.7.5.
- If altitude exceeds this rating, reduction of instantaneous voltages (E_f excluded) and dissipation may be necessary.

Pulse Rating Chart



This chart defines the "area of permissible operation" beyond which normal tube life and normal tube performance may be impaired. The manufacturer performs life tests at peak currents outside this area in order to assure satisfactory life performance within the "area of permissible operation".

This chart is applicable for operation when the duty factor does not exceed 10% and the pulse width does not exceed 100μs. Greater duty factors and longer pulse widths are in the region of Class A, B, and C operation for which this tube is not rated.