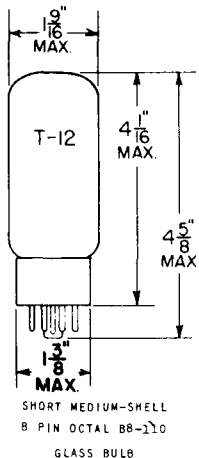


## TUNG-SOL

## TWIN TRIODE



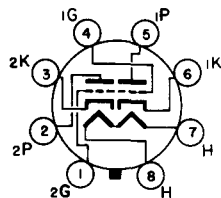
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 2.5 AMP.

AC OR DC

ANY MOUNTING POSITION



BASING DIAGRAM

JEDEC 88D

BOTTOM VIEW

THE 6AS7GA IS A LOW-MU TWIN TRIODE DESIGNED PRIMARILY FOR SERVICE AS A SERIES REGULATOR TUBE IN D-C POWER SUPPLIES. EXCEPT FOR THE USE OF A T-12 ENVELOPE, THE 6AS7GA IS IDENTICAL TO THE 6AS7G.

### DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITH NO EXTERNAL SHIELD

|                                  |     |         |
|----------------------------------|-----|---------|
| GRID TO PLATE (EACH SECTION)     | 7.5 | $\mu f$ |
| INPUT (EACH SECTION)             | 6.5 | $\mu f$ |
| OUTPUT (EACH SECTION)            | 2.2 | $\mu f$ |
| HEATER TO CATHODE (EACH SECTION) | 7.0 | $\mu f$ |
| GRID TO GRID                     | 0.5 | $\mu f$ |
| PLATE TO PLATE                   | 1.9 | $\mu f$ |

### RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

DC AMPLIFIER SERVICE—EACH SECTION

|                                         |     |        |
|-----------------------------------------|-----|--------|
| HEATER VOLTAGE                          | 6.3 | VOLTS  |
| MAXIMUM PLATE VOLTAGE                   | 250 | VOLTS  |
| MAXIMUM PLATE DISSIPATION               | 13  | WATTS  |
| MAXIMUM PLATE CURRENT                   | 125 | MA.    |
| MAXIMUM HEATER-CATHODE VOLTAGE:         |     |        |
| HEATER POSITIVE WITH RESPECT TO CATHODE | 300 | VOLTS  |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | 300 | VOLTS  |
| MAXIMUM GRID-CIRCUIT RESISTANCE:        |     |        |
| WITH CATHODE-BIAS <sup>A</sup>          | 1.0 | MEGOHM |

BOOSTER SCANNING SERVICE—EACH SECTION

|                                    |      |       |
|------------------------------------|------|-------|
| MAXIMUM PEAK INVERSE PLATE VOLTAGE | 1700 | VOLTS |
| MAXIMUM PLATE DISSIPATION          | 13   | WATTS |
| MAXIMUM PLATE CURRENT              | 125  | MA.   |

<sup>A</sup> OPERATION WITH FIXED BIAS IS NOT RECOMMENDED.

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

RATINGS - CONT'D.

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

BOOSTER SCANNING SERVICE-EACH SECTION<sup>B</sup>

|                                         |     |        |
|-----------------------------------------|-----|--------|
| MAXIMUM HEATER-CATHODE VOLTAGE:         |     |        |
| HEATER POSITIVE WITH RESPECT TO CATHODE | 300 | VOLTS  |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | 300 | VOLTS  |
| MAXIMUM GRID-CIRCUIT RESISTANCE:        |     |        |
| WITH CATHODE-BIAS <sup>C</sup>          | 1.0 | MEGOHM |

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

EACH SECTION

|                            |      |       |
|----------------------------|------|-------|
| HEATER VOLTAGE             | 6.3  | VOLTS |
| HEATER CURRENT             | 2.5  | AMP.  |
| PLATE VOLTAGE              | 135  | VOLTS |
| CATHODE-BIAS RESISTOR      | 250  | OHMS  |
| AMPLIFICATION FACTOR       | 2.0  |       |
| PLATE RESISTANCE (APPROX.) | 280  | OHMS  |
| TRANSCONDUCTANCE           | 7000 | μMHOS |
| PLATE CURRENT              | 125  | MA.   |

<sup>B</sup>FOR OPERATION IN A 325-LINE, 30-FRAME TELEVISION SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE CONCERNING TELEVISION BROADCASTING STATIONS: FEDERAL COMMUNICATIONS COMMISSION." THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

<sup>C</sup>OPERATION WITH FIXED BIAS IS NOT RECOMMENDED.

