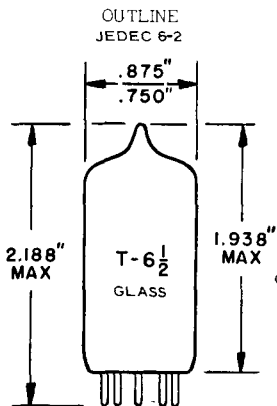


**TUNG-SOL**

## PENTODE

## MINIATURE TYPE

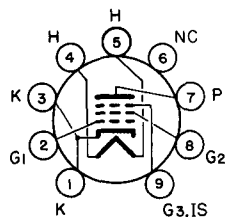


BASE 9 PIN BUTTON  
JEDEC E9-1

SHARP-CUTOFF PENTODE  
FOR  
IF AMPLIFIER STAGES  
IN TV RECEIVERS

COATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION

BASING DIAGRAM  
JEDEC 9PM



BOTTOM VIEW

THE 4JD6 IS A SEMI-REMOTE-CUTOFF PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE IN TELEVISION RECEIVER I.F. AMPLIFIER STAGES. THE SEMI-REMOTE CUTOFF CHARACTERISTICS IS DESIRABLE FOR USE IN AGC CONTROLLED STAGES, EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 4JD6 IS IDENTICAL TO THE 3JD6 AND THE 6JD6.

**DIRECT INTERELECTRODE CAPACITANCES**

## WITHOUT EXTERNAL SHIELD

|                                                                |       |    |
|----------------------------------------------------------------|-------|----|
| GRID 1 TO PLATE - MAX.                                         | 0.019 | pf |
| INPUT (G TO H + K + G <sub>3</sub> + I, S. + G <sub>2</sub> )  | 8.2   | pf |
| OUTPUT (P TO H + K + G <sub>3</sub> + I, S. + G <sub>2</sub> ) | 3.0   | pf |

**HEATER CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                            |           |          |         |
|----------------------------|-----------|----------|---------|
| AVERAGE CHARACTERISTICS    | 4.5 VOLTS | 450      | mA      |
| HEATER WARM-UP TIME        |           | 11       | SECONDS |
| LIMITS OF SUPPLIED CURRENT |           | 450 ± 30 | mA      |

**MAXIMUM HEATER-CATHODE VOLTAGE:**

|                                         |  |     |       |
|-----------------------------------------|--|-----|-------|
| HEATER NEGATIVE WITH RESPECT TO CATHODE |  |     |       |
| TOTAL DC AND PEAK                       |  | 200 | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE |  |     |       |
| DC                                      |  | 100 | VOLTS |
| TOTAL DC AND PEAK                       |  | 200 | VOLTS |

CONTINUED ON FOLLOWING PAGE

**TUNG-SOL**

CONTINUED ON FOLLOWING PAGE

**MAXIMUM RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                                      |                  |         |
|--------------------------------------|------------------|---------|
| PLATE VOLTAGE                        | 330              | VOLTS   |
| GRID 2 SUPPLY VOLTAGE                | 330              | VOLTS   |
| GRID 2 VOLTAGE                       | SEE RATING CHART |         |
| POSITIVE DC GRID 1 VOLTAGE           |                  | 0 VOLTS |
| PLATE DISSIPATION                    | 2.5              | WATTS   |
| GRID 2 DISSIPATION - UP TO 165 VOLTS | 0.6              | WATTS   |
| GRID 1 CIRCUIT RESISTANCE:           |                  |         |
| CATHODE BIAS RESISTOR                | 1                | MEGOHM  |
| FIXED BIAS                           | 0.25             | MEGOHM  |

**CHARACTERISTICS AND TYPICAL OPERATION**

|                                         |                                |            |
|-----------------------------------------|--------------------------------|------------|
| PLATE VOLTAGE                           | 125                            | VOLTS      |
| GRID 3 VOLTAGE                          | CONNECTED TO CATHODE AT SOCKET |            |
| GRID 2 VOLTAGE                          |                                | 125 VOLTS  |
| CATHODE BIAS RESISTOR                   | 56                             | OHMS       |
| PLATE CURRENT                           | 15                             | mA         |
| GRID 2 CURRENT                          | 4                              | mA         |
| TRANSCONDUCTANCE                        | 14,000                         | $\mu$ MHOS |
| PLATE RESISTANCE                        | 0.16                           | MEGOHM     |
| GRID 1 VOLTAGE FOR $G_m = 600 \mu$ MHOS | -4.5                           | VOLTS      |

