

**TUNG-SOL****DIODE PENTODE**

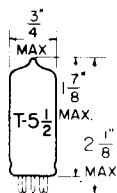
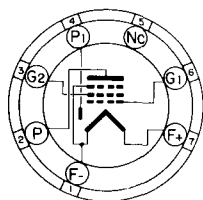
MINIATURE TYPE

COATED FILAMENT

1.4 VOLTS 0.05 AMP.

AC OR DC

ANY MOUNTING POSITION

**GLASS BULB****BOTTOM VIEW**MINIATURE BUTTON  
7 PIN BASE

6BW

THE DIODE PLATE IS LOCATED  
AT THE NEGATIVE END OF THE  
FILAMENT

THE 1DN5 IS A COMBINED SINGLE DETECTOR DIODE AND REMOTE CUT-OFF PENTODE WITH A COMMON FILAMENTARY CATHODE IN THE 7 PIN MINIATURE CONSTRUCTION. THE PENTODE SECTION IS INTENDED FOR USE AS AN AUDIO AMPLIFIER IN LIGHT-WEIGHT, PORTABLE EQUIPMENT AT LOW PLATE SUPPLY VOLTAGE. THE DESIGN OF THIS TYPE PERMITS THE APPLICATION OF AVC VOLTAGE TO THE CONTROL GRID, THEREBY IMPROVING OVERALL RECEIVER AVC.

**DIRECT INTERELECTRODE CAPACITANCES**  
WITHOUT EXTERNAL SHIELD

|                               |      |               |
|-------------------------------|------|---------------|
| DIODE PLATE TO GRID #1 (MAX.) | 0.04 | $\mu\text{f}$ |
|-------------------------------|------|---------------|

**RATINGS**

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

|                                                |      |       |
|------------------------------------------------|------|-------|
| FILAMENT VOLTAGE                               | 1.4  | VOLTS |
| MAXIMUM PLATE VOLTAGE                          | 90   | VOLTS |
| MAXIMUM GRID #2 VOLTAGE                        | 90   | VOLTS |
| MAXIMUM POSITIVE DC GRID #1 VOLTAGE            | 0    | VOLTS |
| MAXIMUM NEGATIVE DC GRID #1 VOLTAGE            | -50  | VOLTS |
| MAXIMUM CATHODE CURRENT                        | 3    | MA.   |
| MAXIMUM DIODE CURRENT FOR CONTINUOUS OPERATION | 0.25 | MA.   |

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

|                                                         |       |                  |
|---------------------------------------------------------|-------|------------------|
| FILAMENT VOLTAGE                                        | 1.4   | VOLTS            |
| FILAMENT CURRENT                                        | 0.05  | AMP.             |
| PLATE VOLTAGE                                           | 67.5  | VOLTS            |
| GRID #2 VOLTAGE                                         | 67.5  | VOLTS            |
| GRID #1 VOLTAGE                                         | 0     | VOLTS            |
| PLATE CURRENT                                           | 2.1   | MA.              |
| GRID #2 CURRENT                                         | 0.55  | MA.              |
| TRANSCONDUCTANCE                                        | 630   | $\mu\text{MHOS}$ |
| GRID #1 VOLTAGE (APPROX.) FOR $G_m = 10 \mu\text{MHOS}$ | -11.5 | VOLTS            |
| PLATE RESISTANCE (APPROX.)                              | 0.6   | MEG OHMS         |
| AVERAGE DIODE CURRENT AT 10 VOLTS DC                    | 1.0   | MA.              |