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

6MΩ

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

THE IDN5 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 LIGHTWEIGHT, 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

WITHEOUT EXTERNAL SHIELD

DIODE PLATE TO GRID #1 (MAX.) 0.04 μF

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 ΜMHOs
GRID #1 VOLTAGE (APPROX.) FOR GM = 10 ΜMHOs -11.5 VOLTS
PLATE RESISTANCE (APPROX.) 0.6 MEGOHMS
AVERAGE DIODE CURRENT AT 10 VOLTS DC 1.0 MA.