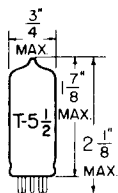


**TUNG-SOL**

DIODE PENTODE  
MINIATURE TYPE



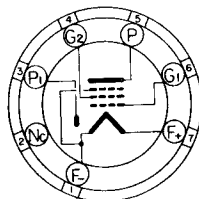
GLASS BULB

COATED FILAMENT

1.4 VOLTS 25 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW  
MINIATURE BUTTON  
7 PIN BASE

6AU

THE 1AF5 IS A FILAMENTARY TYPE DIODE PENTODE VOLTAGE AMPLIFIER USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR USE IN PORTABLE RECEIVERS AS A DETECTOR AND AF AMPLIFIER. THE FILAMENT POWER CONSUMPTION HAS BEEN CUT IN HALF WITH RESPECT TO TUBES PREVIOUSLY USED IN THIS SERVICE.

DIRECT INTERELECTRODE CAPACITANCES

	WITHOUT SHIELD	WITH SHIELD <sup>A</sup>	
GRID TO PLATE: (G <sub>1</sub> TO P)	0.2	0.2	μf
INPUT: G <sub>1</sub> TO (F <sub>1</sub> &G <sub>3</sub> +G <sub>2</sub> )	2.3	2.5	μf
OUTPUT: P TO (F <sub>1</sub> &G <sub>3</sub> +G <sub>2</sub> )	2.4	4.3	μf
DIODE TO GRID #1: (P <sub>1</sub> TO G <sub>1</sub> ) MAX.	0.03	0.03	μf

<sup>A</sup> SHIELD #316 CONNECTED TO PIN #1.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

FILAMENT VOLTAGE	1.4	VOLTS
MAXIMUM PLATE VOLTAGE	110	VOLTS
MAXIMUM GRID #2 VOLTAGE	110	VOLTS
MAXIMUM POSITIVE GRID #1 VOLTAGE	0	VOLTS
MAXIMUM CATHODE CURRENT	2.5	MA.
MAXIMUM DIODE CURRENT FOR CONTINUOUS OPERATION	0.25	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

FILAMENT VOLTAGE	1.4	1.4	VOLTS
FILAMENT CURRENT	25	25	MA.
PLATE VOLTAGE	67.5	90	VOLTS
GRID #2 VOLTAGE	67.5	90	VOLTS
GRID #1 VOLTAGE	0	0	VOLTS
PLATE RESISTANCE	2.3	2	MEGOHMS
TRANSCONDUCTANCE	500	600	μMHOS
PLATE CURRENT	0.7	1.1	MA.
GRID #2 CURRENT	0.25	0.4	MA.
GRID #1 VOLTAGE FOR G <sub>m</sub> = 10 μMHOS	-2.5	-3.5	VOLTS
AVERAGE DIODE CURRENT WITH 10 VOLTS DC APPLIED	0.7	0.7	MA.