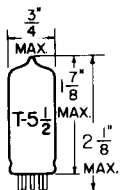


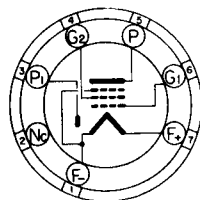
TUNG-SOL

DIODE PENTODE



GLASS BULB

COATED FILAMENT
 FILAMENT
 1.4 VOLTS 50 MA.
 DC
 ANY MOUNTING POSITION



BOTTOM VIEW
 MINIATURE BUTTON
 7 PIN BASE
 6AU

THE 1S5 IS A DIODE PENTODE AMPLIFIER ESPECIALLY DESIGNED FOR DETECTOR-AUDIO SERVICE IN COMPACT, LIGHT-WEIGHT, PORTABLE EQUIPMENT. THE HIGH OPERATING EFFICIENCY ALLOWS IT TO BE USED WITH EXTREMELY LOW PLATE-SUPPLY VOLTAGE.

DIRECT INTERELECTRODE CAPACITANCES ←

| | | |
|---|-----|-----|
| DIODE PLATE TO GRID #1 ^A | 0.1 | μuf |
| DIODE PLATE TO FILAMENT & PIN #2 ^B | 1.1 | μuf |

RATINGS

INTERPRETED ACCORDING TO DESIGN-MAXIMUM SYSTEM

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

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - PENTODE UNIT

| | | |
|---|------|--------|
| FILAMENT VOLTAGE | 1.4 | VOLTS |
| FILAMENT CURRENT | 50 | MA. |
| PLATE VOLTAGE | 67.5 | VOLTS |
| GRID #2 VOLTAGE | 67.5 | VOLTS |
| GRID #1 VOLTAGE | 0 | VOLTS |
| PLATE RESISTANCE (APPROX.) | 0.6 | MEGOHM |
| TRANSCONDUCTANCE | 625 | μMHOS |
| PLATE CURRENT | 1.6 | MA. |
| GRID #2 CURRENT | 0.4 | MA. |
| GRID #1 VOLTAGE (APPROX.) FOR I _b = 40 μA DC | -5 | VOLTS |
| AVERAGE DIODE CURRENT AT 40 VOLTS DC | 1.5 | MA. |

CONTINUED ON FOLLOWING PAGE

^A WITHOUT EXTERNAL SHIELD OR WITH EXTERNAL SHIELD #316 CONNECTED TO PIN #1.

^B WITHOUT EXTERNAL SHIELD.

→ INDICATES A CHANGE.

TUNG-SOL

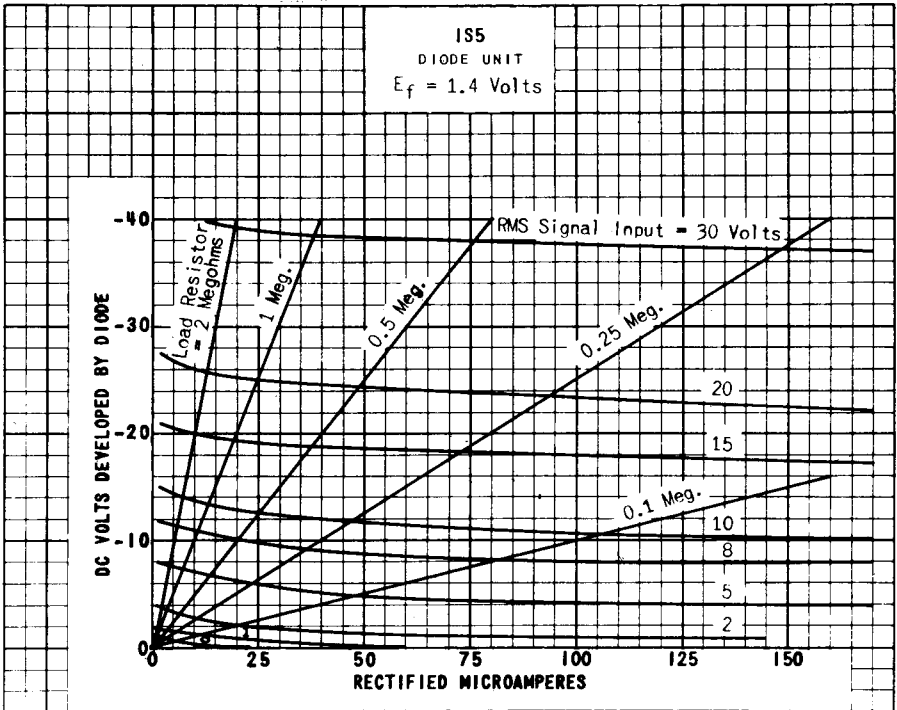
CONTINUED FROM PRECEDING PAGE

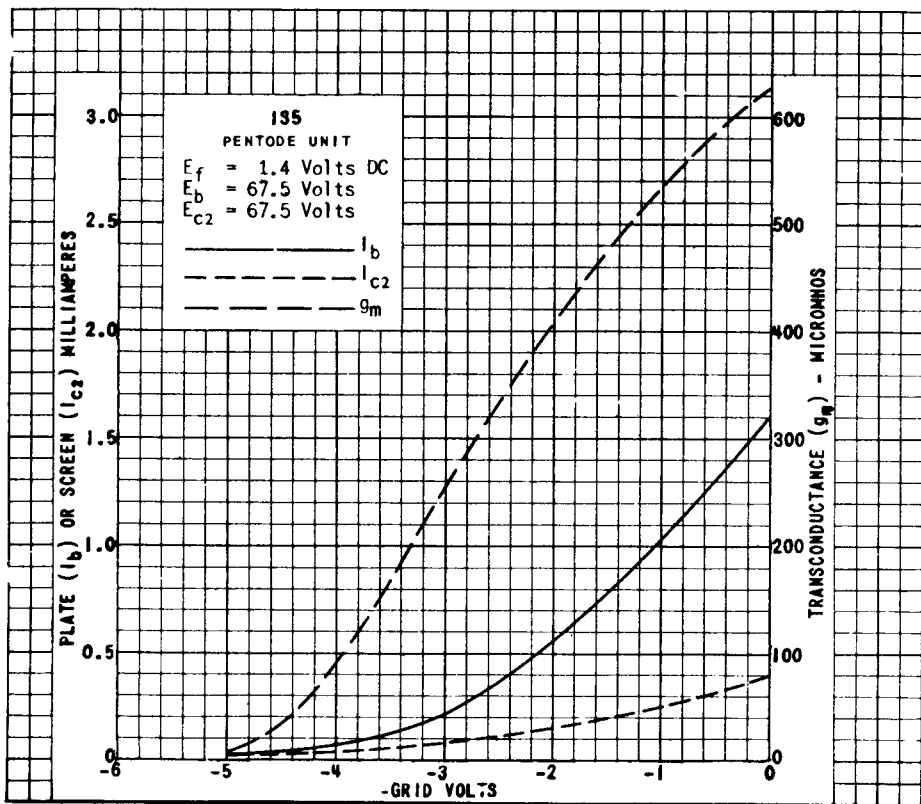
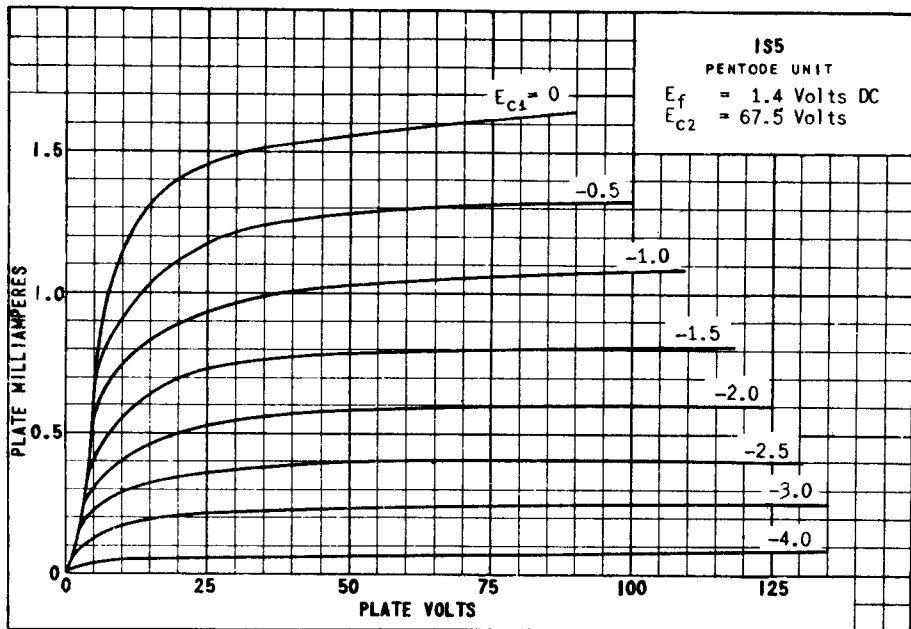
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

RESISTANCE COUPLED AMPLIFIER

PENTODE UNIT

| | | | |
|----------------------------------|---------|---------|---------|
| FILAMENT VOLTAGE | 1.4 | 1.4 | VOLTS |
| PLATE SUPPLY VOLTAGE | 45 | 90 | VOLTS |
| SCREEN SUPPLY VOLTAGE | 45 | 90 | VOLTS |
| CONTROL GRID VOLTAGE | 0 | 0 | VOLTS |
| PLATE LOAD RESISTOR | 470 000 | 470 000 | OHMS |
| CONTROL GRID RESISTOR | 10 | 10 | MEGOHMS |
| SERIES SCREEN RESISTOR | 2.2 | 2.2 | MEGOHMS |
| SCREEN BY-PASS CONDENSER | 0.1 | 0.1 | μf |
| INPUT CONDENSER | 0.01 | 0.01 | μf |
| OUTPUT CONDENSER | 0.01 | 0.01 | μf |
| GRID RESISTOR OF FOLLOWING STAGE | 1.0 | 1.0 | MEGOHMS |
| SIGNAL SOURCE IMPEDANCE (MAX.) | 1000 | 1000 | OHMS |
| DISTORTION | 5 | 5 | PERCENT |
| OUTPUT VOLTAGE | 5.5 | 17.0 | VOLTS |
| VOLTAGE GAIN AT 400 CPS | 33 | 50 | |





PRINTED IN U. S. A.

PLATE
1768
FEB. 3,
1947

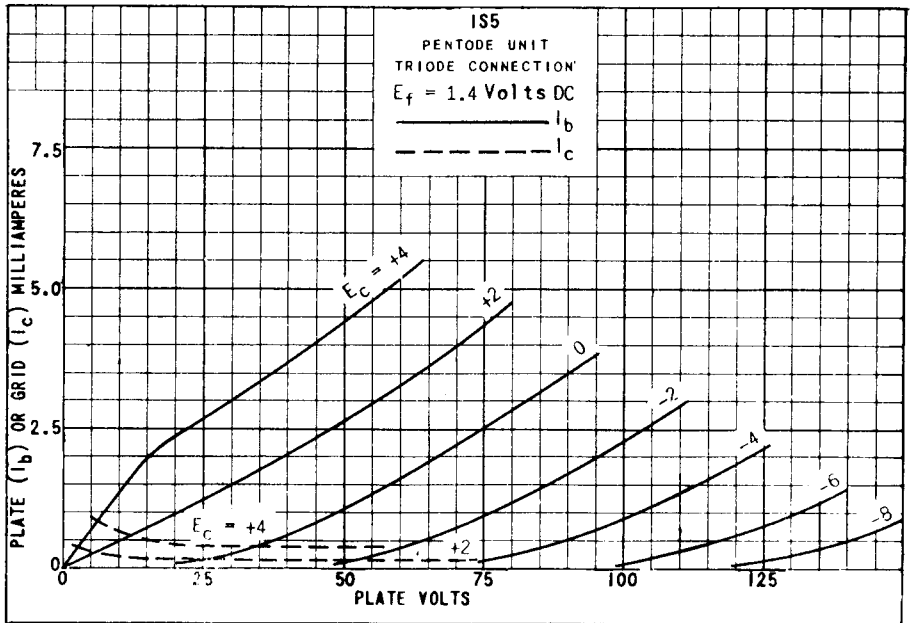
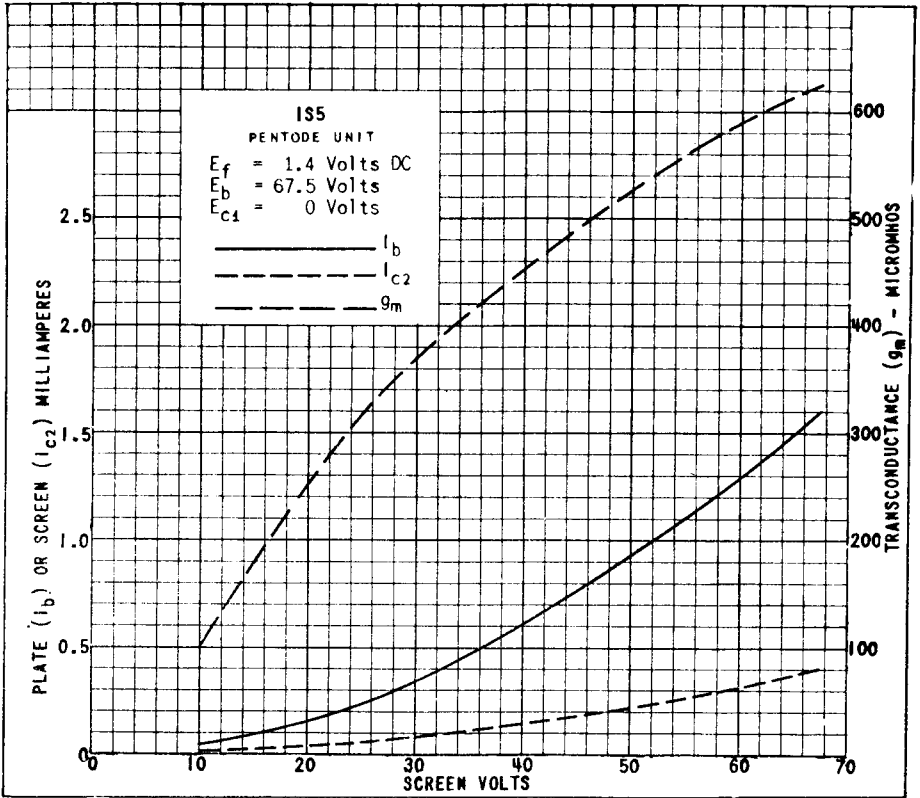


PLATE
 1769
 FEB. 3,
 1947