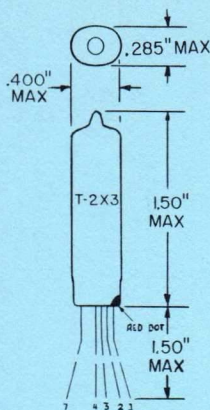


## TUNG-SOL

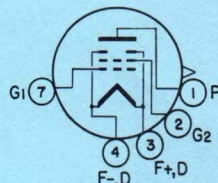


GLASS BULB  
DOT IS ADJACENT  
TO LEAD 1  
OUTLINE DRAWING  
JEDEC 2-5  
IN-LINE LEADS

# ELECTROMETER PENTODE SUBMINIATURE TYPE

FOR  
SINGLE STAGE AND MULTI-STAGE  
CIRCUIT APPLICATIONS

ANY MOUNTING POSITION



BOTTOM VIEW  
LEADS 5 & 6 ARE OMITTED  
LEADS 0.048\"/>

THE 5886 IS A FILAMENTARY TYPE PENTODE IN THE 5 PIN SUBMINIATURE CONSTRUCTION. OPERATED AS A TRIODE, THE TUBE HAS AN UNUSUALLY HIGH RATIO OF TRANSCONDUCTANCE TO CONTROL GRID CURRENT FOR SINGLE STAGE CIRCUITS. AS A PENTODE, THE AMPLIFICATION FACTOR IS HIGH ENOUGH TO AFFORD CONSIDERABLE VOLTAGE GAIN IN THE ELECTROMETER STAGE OF A MULTI-STAGE CIRCUIT.

## DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

|                            |     |    |
|----------------------------|-----|----|
| GRID 1 TO ALL              | 2.2 | pf |
| GRID 1 TO GRID 2 AND PLATE | 2.0 | pf |

## FILAMENT CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                           |      |       |           |       |
|---------------------------|------|-------|-----------|-------|
| AVERAGE CHARACTERISTICS   | 1.25 | VOLTS | 10        | MA.   |
| LIMITS OF APPLIED VOLTAGE |      |       | 1.25±0.25 | VOLTS |

FOR USE WITH BATTERIES HAVING AN INITIAL VOLTAGE OF 1.55 VOLTS MAX.

## MAXIMUM RATINGS

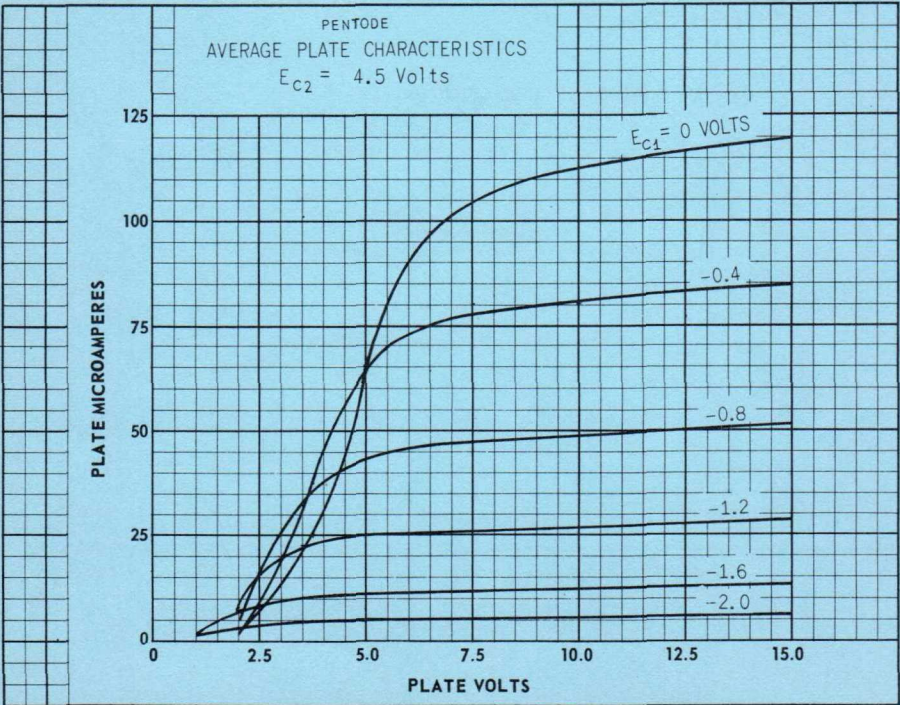
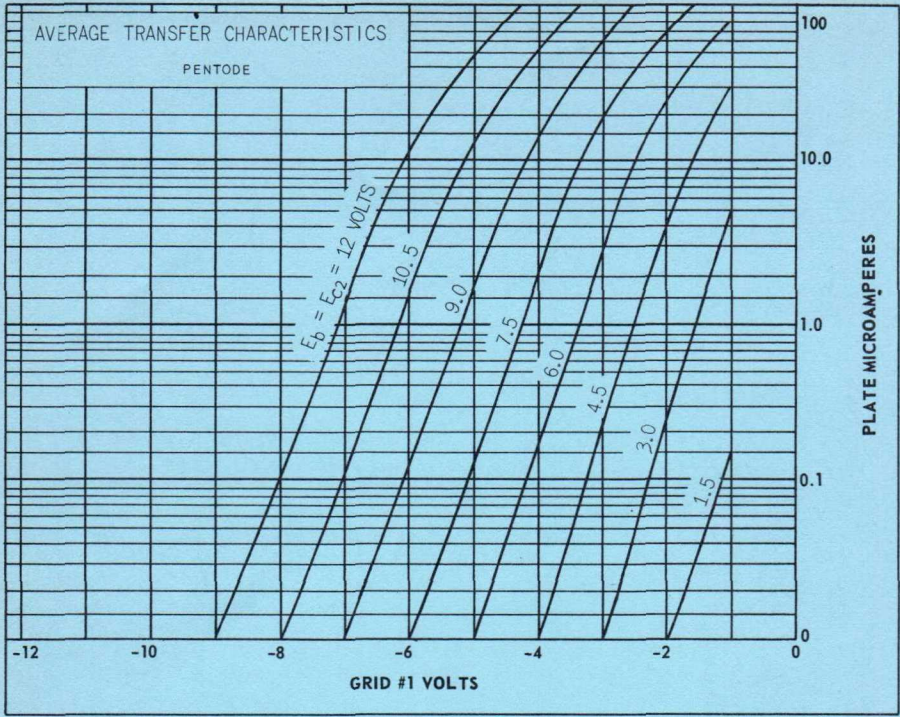
ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

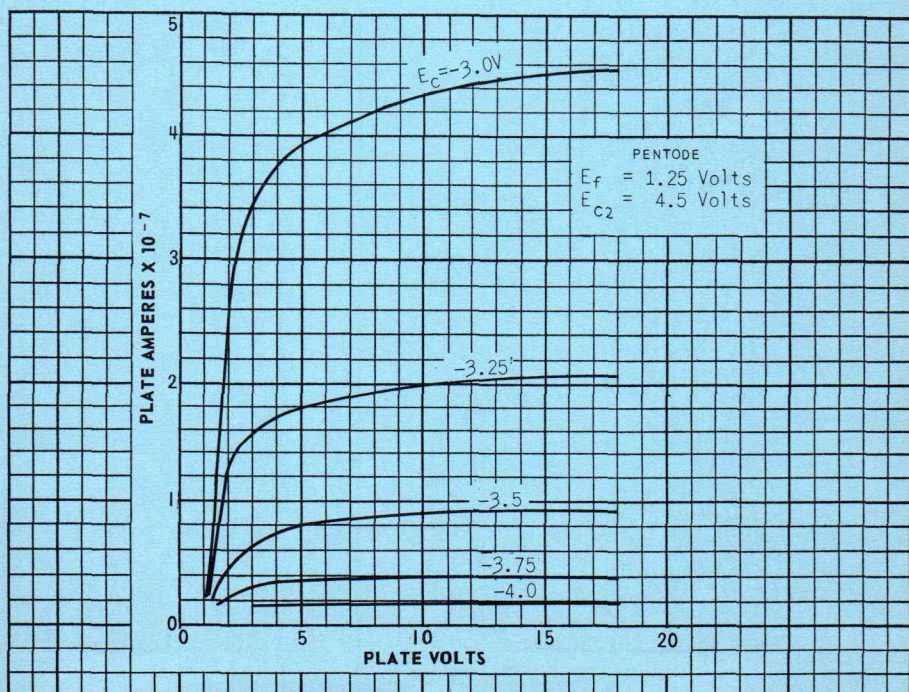
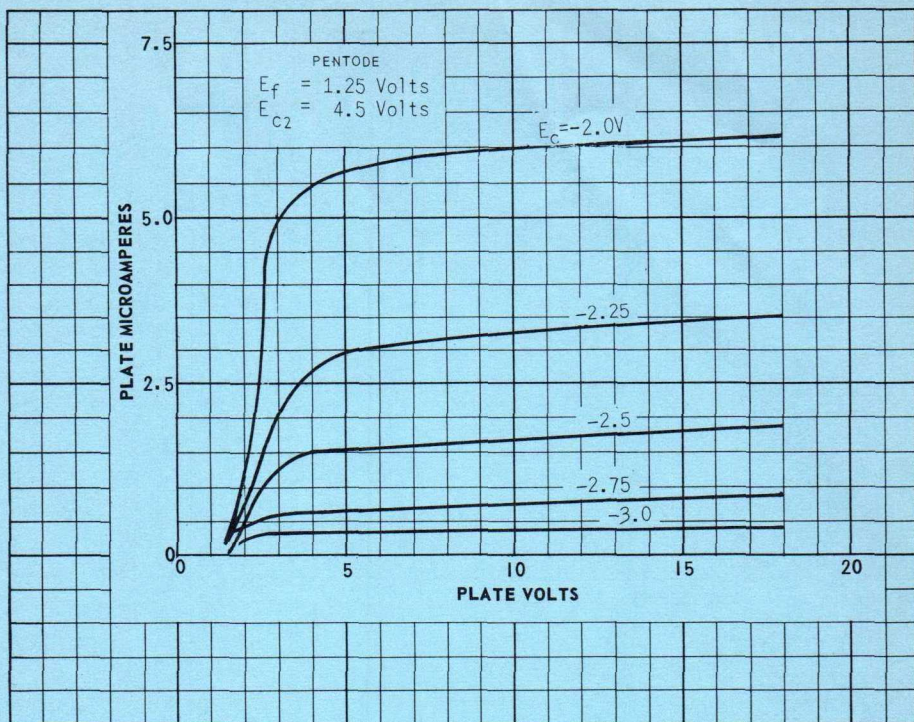
|                       |      |       |
|-----------------------|------|-------|
| PLATE VOLTAGE         | 22.5 | VOLTS |
| GRID 2 VOLTAGE        | 22.5 | VOLTS |
| TOTAL CATHODE CURRENT | 300  | μA    |

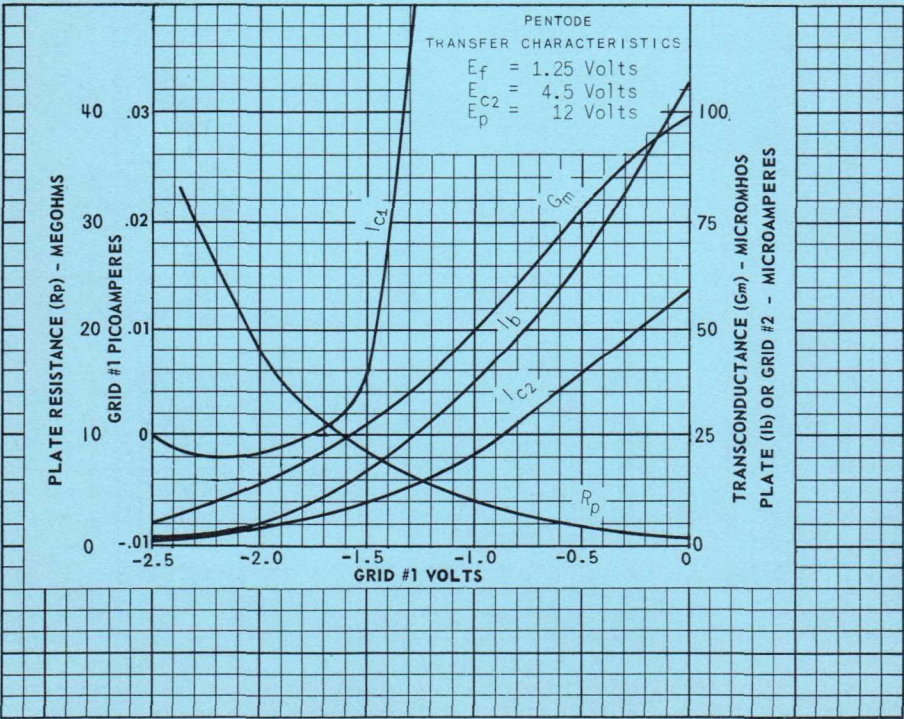
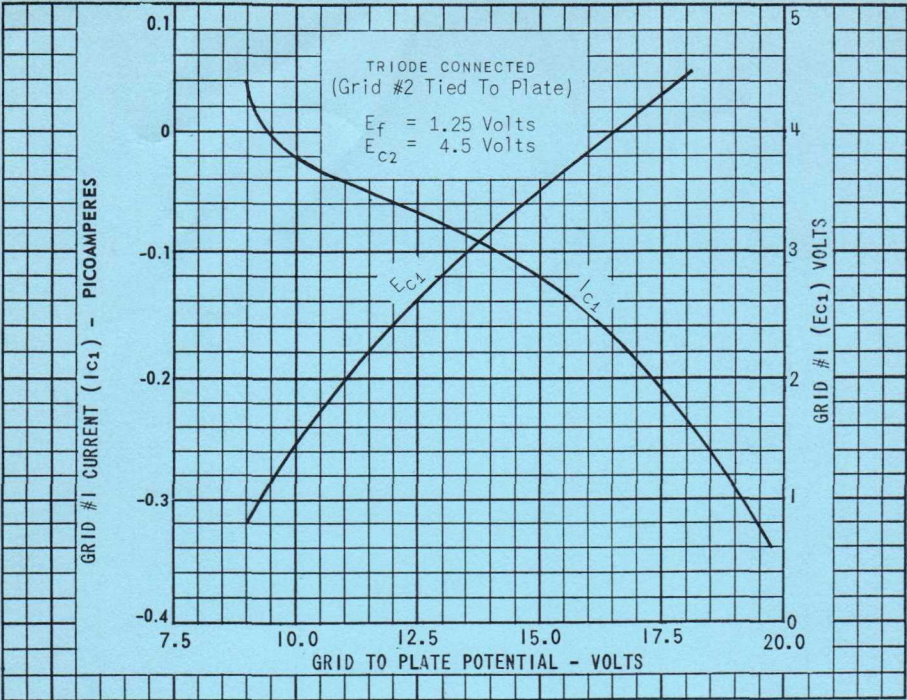
## TYPICAL OPERATING CHARACTERISTICS

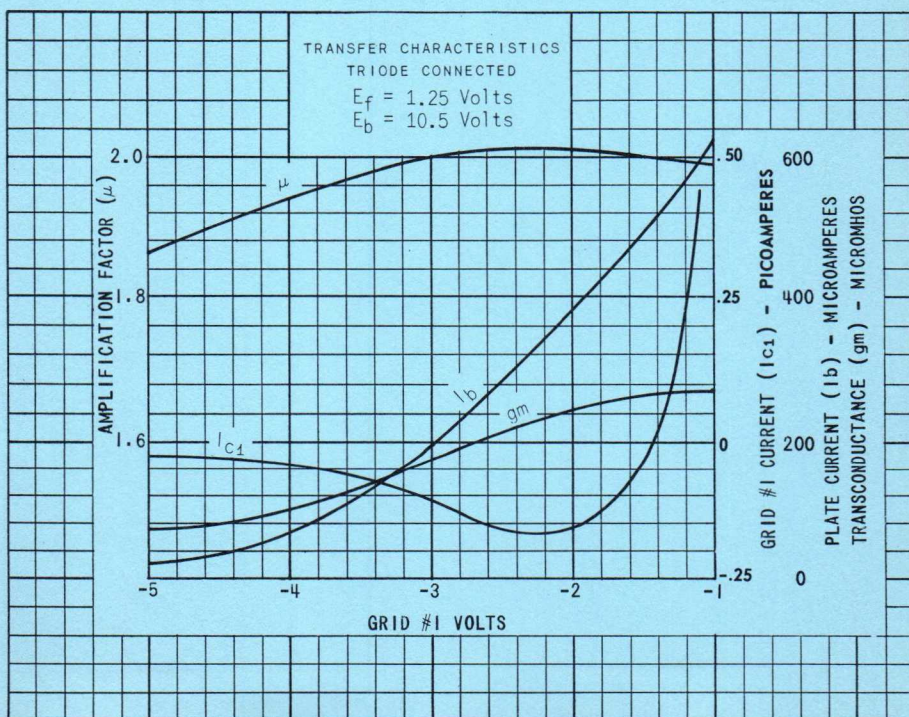
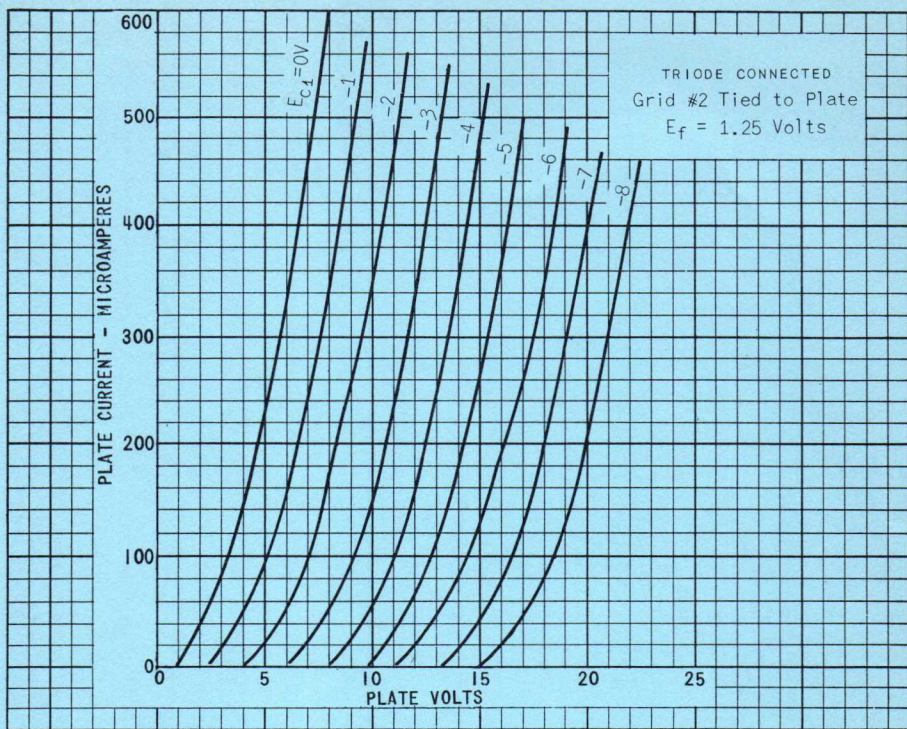
|                        | TRIODE                | PENTODE             |       |
|------------------------|-----------------------|---------------------|-------|
| PLATE VOLTAGE          | 10.5                  | 8.5                 | VOLTS |
| GRID 2 VOLTAGE         | -----                 | 4.5                 | VOLTS |
| GRID 1 VOLTAGE         | -3                    | -2                  | VOLTS |
| PLATE CURRENT          | 200                   | 6                   | μA    |
| GRID 2 CURRENT         | -----                 | 3.6                 | μA    |
| AMPLIFICATION FACTOR   | 1.8                   | -----               |       |
| TRANS CONDUCTANCE      | 175                   | 14                  | μMHOS |
| PLATE RESISTANCE       | -----                 | 8                   | MΩ    |
| MAX. GRID 1 CURRENT    | 2.5×10 <sup>-13</sup> | -----               | AMP.  |
| NOMINAL GRID 1 CURRENT |                       | 3×10 <sup>-15</sup> | AMP.  |

<sup>B</sup>  
GRID 2 CONNECTED TO PLATE









TRANSFER CHARACTERISTICS  
TRIODE CONNECTED  
 $E_f = 1.25$  Volts  
 $E_b = 6$  Volts

