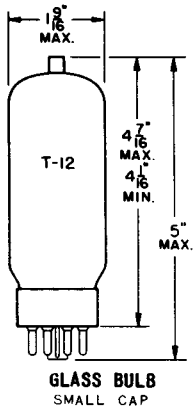


TUNG-SOL

PENTODE



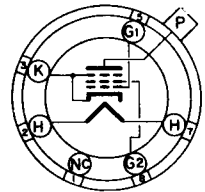
COATED UNIPOTENTIAL CATHODE

HEATER

25.0 VOLTS 0.6 AMP.

AC OR DC

VERTICAL MOUNTING POSITION

HORIZONTAL OPERATION PERMITTED IF
PLANE OF PINS 1 AND 3 IS VERTICAL

BOTTOM VIEW
SHORT-MEDIUM SHELL
8 PIN OCTAL

5BT

THE 25DN6 IS A BEAM POWER AMPLIFIER INTENDED FOR USE AS A HORIZONTAL DEFLECTION AMPLIFIER IN 600 MA. SERIES HEATER OPERATED TELEVISION RECEIVERS HAVING LOW B SUPPLY VOLTAGE. THERMAL CHARACTERISTICS OF THE HEATER HAVE BEEN CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED.

DIRECT INTERELECTRODE CAPACITANCES — APPROX.

GRID #1 TO PLATE	0.8	μf
INPUT	22	μf
OUTPUT	11.5	μf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER VALUES^AHORIZONTAL DEFLECTION AMPLIFIER^B

HEATER VOLTAGE	25.0	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM DC PLATE SUPPLY VOLTAGE (BOOST + DC POWER SUPPLY)	700	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (ABS. MAX.)	6 600	VOLTS
MAXIMUM PEAK NEGATIVE PULSE PLATE VOLTAGE	1 500	VOLTS
MAXIMUM PLATE DISSIPATION ^C	15	WATTS
MAXIMUM PEAK NEGATIVE GRID #1 VOLTAGE	200	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	175	VOLTS
MAXIMUM GRID #2 DISSIPATION	3.0	WATTS
MAXIMUM AVERAGE CATHODE CURRENT	200	MA.
MAXIMUM PEAK CATHODE CURRENT	700	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	0.47	MEG OHM
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT)	225	°C
HEATER WARM-UP TIME {APPROX.} ^D	11.0	SECONDS

^AUNLESS OTHERWISE INDICATED.

^BFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION". THE DUTY CYCLE OF THE VOLTAGE PULSE NOT TO EXCEED 15 PERCENT OF A SCANNING CYCLE.

^CIN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

^DHEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

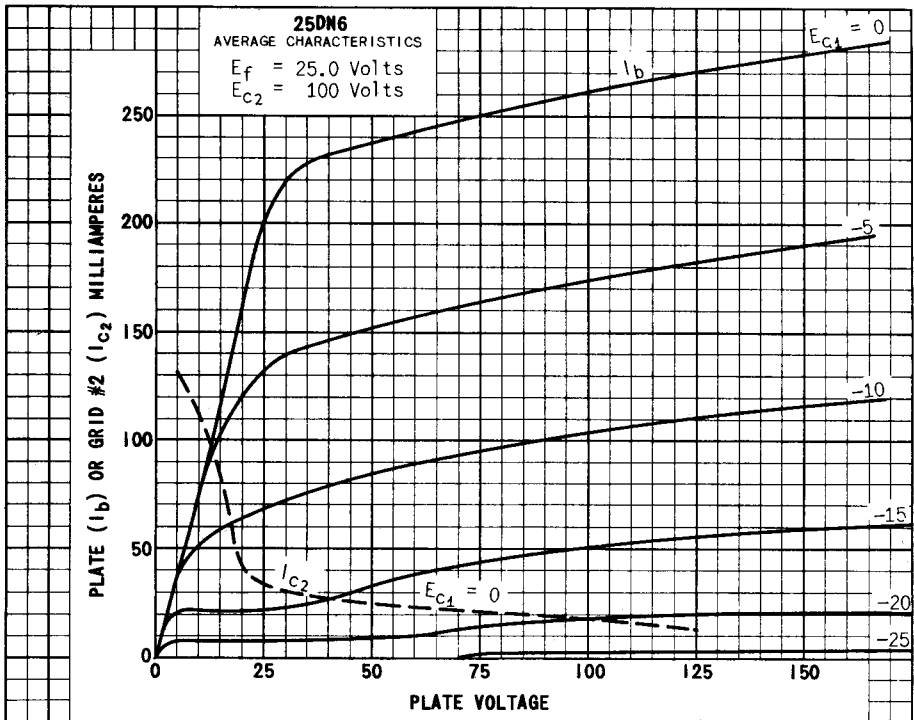
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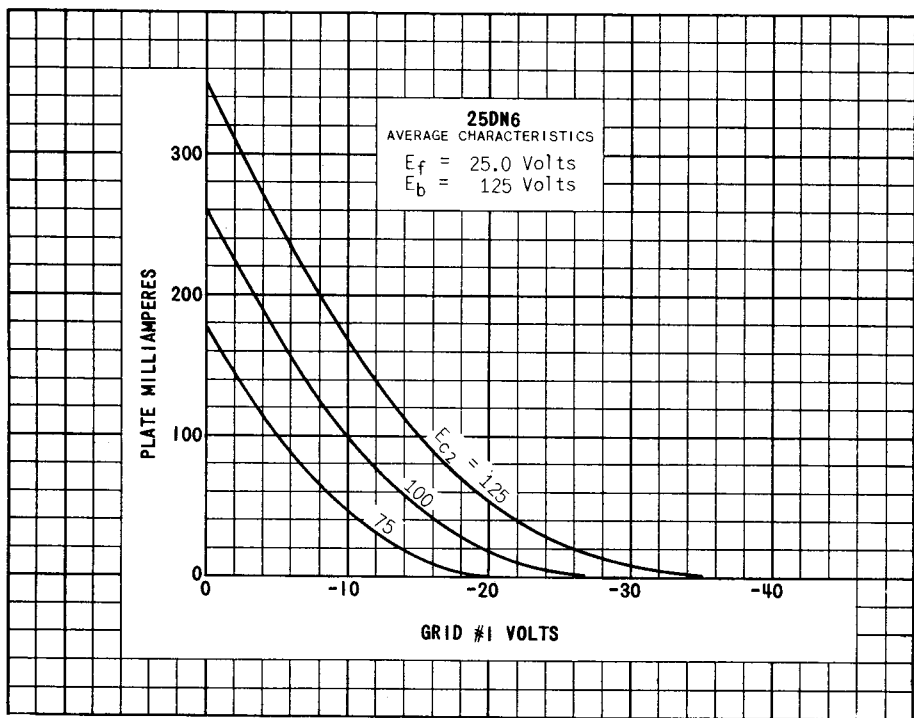
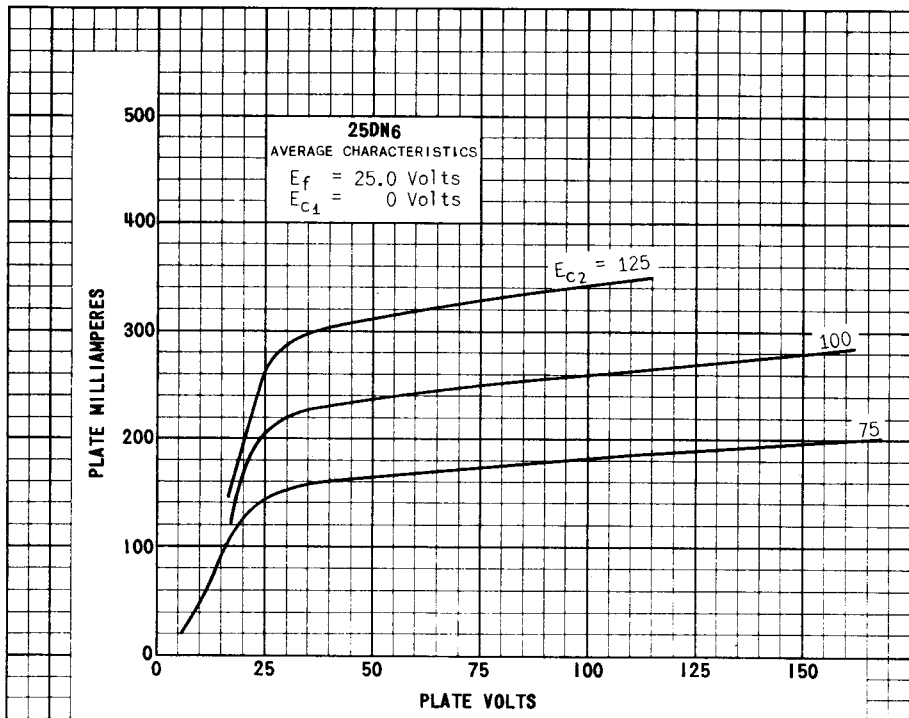
TUNG-SOL

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	25.0	VOLTS
HEATER CURRENT	0.6	AMP.
PENTODE OPERATION: WITH $E_b = 125$ VOLTS, $E_{c2} = 125$ VOLTS AND $E_{c1} = -18$ VOLTS.		
PLATE CURRENT	70	MA.
GRID #2 CURRENT	6.3	MA.
TRANSCONDUCTANCE	9 000	μ MHOS
PLATE RESISTANCE (APPROX.)	4 000	OHMS
ZERO-BIAS: WITH $E_b = 50$ VOLTS, $E_{c2} = 100$ VOLTS & $E_{c1} = 0$ VOLTS (INSTANTANEOUS VALUES)		
PLATE CURRENT	240	MA.
GRID #2 CURRENT	30	MA.
CUT-OFF: FOR $I_b = 0.5$ MA. WITH $E_b = 125$ VOLTS AND $E_{c2} = 125$ VOLTS		
GRID #1 VOLTAGE (APPROX.)	-36	VOLTS
TRIODE AMPLIFICATION FACTOR; WITH $E_b = E_{c2} = 125$ V. & $E_{c1} = -18$ V.	4.35	





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25DN6

