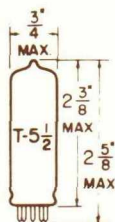


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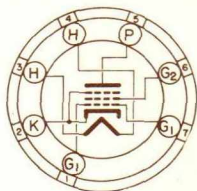
PENTODE
MINIATURE TYPE

GLASS BULB

UNIPOTENTIAL CATHODE

 HEATER
 $6.3 \pm 10\%$ VOLTS 0.8 AMP.
 AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

 SMALL-BUTTON MINIATURE
 7 PIN BASE

THE 6DS5 IS A BEAM POWER PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE PRIMARILY IN THE AUDIO OUTPUT STAGES OF TELEVISION AND RADIO RECEIVERS.

 DIRECT INTERELECTRODE CAPACITANCES - APPROX.
 WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	0.19	$\mu\mu\text{f}$
GRID #1 TO CATHODE & GRID #3, HEATER & GRID #2	9.5	$\mu\mu\text{f}$
PLATE TO CATHODE & GRID #3, HEATER & GRID #2	6.3	$\mu\mu\text{f}$

→ RATINGS

 INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM
 CLASS A₁ AMPLIFIER

HEATER VOLTAGE	$6.3 \pm 10\%$	VOLTS
MAXIMUM PLATE VOLTAGE	275	VOLTS
MAXIMUM GRID #2 (SCREEN-GRID) VOLTAGE	275	VOLTS
MAXIMUM GRID #1 (CONTROL-GRID) VOLTAGE:		
POSITIVE BIAS VALUE	0	VOLT
MAXIMUM PLATE DISSIPATION	9	WATTS
MAXIMUM GRID #2 INPUT	2.2	WATTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE	200 ^A	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE)	250	°C

^ATHE DC COMPONENT MUST NOT EXCEED 100 VOLTS.
 TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
 CATHODE-BIAS OPERATION

HEATER VOLTAGE	$6.3 \pm 10\%$	VOLTS
HEATER CURRENT	0.8	AMP.
PLATE SUPPLY VOLTAGE	200	250 VOLTS
GRID #2 VOLTAGE	200	200 VOLTS
CATHODE-BIAS RESISTOR	180	270 OHMS
PEAK AF GRID-NO. 1 VOLTAGE	7.5	9.2 VOLTS
ZERO-SIGNAL PLATE CURRENT	34.5	27 MA.
MAX.-SIGNAL PLATE CURRENT	32.5	25 MA.
ZERO-SIGNAL GRID #2 CURRENT	3.5	3 MA.
MAX.-SIGNAL GRID #2 CURRENT	9	9 MA.
PLATE RESISTANCE (APPROX.)	28 000	28 000 OHMS
TRANSCONDUCTANCE	6 000	5 800 μMHOS
TOTAL HARMONIC DISTORTION	10	10 PERCENT
LOAD RESISTANCE	6 000	8 000 OHMS
MAX.-SIGNAL POWER OUTPUT	2.8	3.6 WATTS

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS - CONT'D.

FIXED-BIAS OPERATION

HEATER VOLTAGE	6.3±10%		VOLTS
HEATER CURRENT	0.8		AMP.
PLATE VOLTAGE	200	250	VOLTS
GRID #2 VOLTAGE	200	200	VOLTS
GRID #1 (CONTROL-GRID) VOLTAGE	-7.5	-8.5	VOLTS
PEAK AF GRID #1 VOLTAGE	7.5	8.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	35	29	MA.
MAX.-SIGNAL PLATE CURRENT	36	32	MA.
ZERO-SIGNAL GRID #2 CURRENT	3	3	MA.
MAX.-SIGNAL GRID #2 CURRENT	9	10	MA.
PLATE RESISTANCE (APPROX.)	28 000	28 000	OHMS
TRANSCONDUCTANCE	6 000	5 800	μMHOS
LOAD RESISTANCE	6 000	8 000	OHMS
TOTAL HARMONIC DISTORTION	9	10	PERCENT
MAX.-SIGNAL POWER OUTPUT	3	3.8	WATTS

MAXIMUM CIRCUIT VALUES

GRID #1 CIRCUIT RESISTANCE:

FOR FIXED-BIAS OPERATION

0.1 MEGOHM

FOR CATHODE-BIAS OPERATION

1.0 MEGOHM

