



6082

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LOW-MU TWIN POWER TRIODE

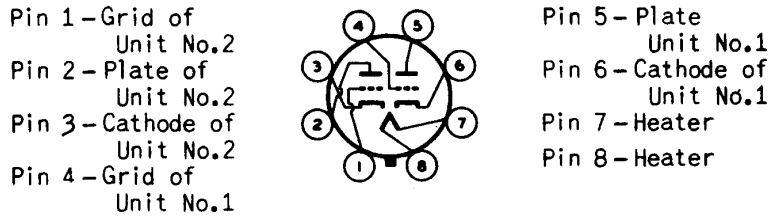
GENERAL DATA

Heater, for Unipotential Cathodes:
 Voltage 26.5 ± 10% . . . ac or dc volts
 Current 0.6 amp

Direct Interelectrode Capacitances (Approx.):
 (Each Unit, without external shield)
 Grid to Plate 8 μf
 Input 6 μf
 Output 2.2 μf
 Heater to Cathode:
 Triode Unit No.1 13 μf
 Triode Unit No.2 13 μf
 Grid of Unit No.1 to Grid of Unit No.2 0.5 μf
 Plate of Unit No.1
 to Plate of Unit No.2 2 μf

Characteristics, Amplifier Class A₁ (Each Unit):
 Plate-Supply Voltage 135 volts
 Cathode-Bias Resistor 250 ohms
 Amplification Factor 2
 Plate Resistance 280 ohms
 Transconductance 7000 μmhos
 Plate Current 125 ma

Mechanical:
 Mounting Position Any
 Maximum Overall Length 4-1/16"
 Maximum Seated Length 3-1/2"
 Maximum Diameter 1-23/32"
 Bulb T-12
 Base Large-Wafer Octal 8-Pin with Sleeve and External Barriers (JETEC No. B8-98)
 Basing Designation for BOTTOM VIEW 8BD



DC AMPLIFIER

Values are for Each Unit

Maximum Ratings, Absolute Values:
 PLATE VOLTAGE 250 max. volts
 PLATE CURRENT 125 max. ma
 PLATE DISSIPATION 13 max. watts
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode 300 max. volts
 Heater positive with respect to cathode 300 max. volts

← indicates a change

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BULB TEMPERATURE [ⓐ]	200 max.	°C
Maximum Circuit Values:		
Grid-Circuit Resistance:		
For cathode-bias operation	1.0 max.	megohm
For fixed-bias operation [ⓑ]	0.1 max.	megohm
For combined fixed- and cathode-bias operation [ⓐ]	0.1 max.	megohm
CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN		
	<i>Note</i>	<i>Min.</i> <i>Max.</i>
Heater Current	1	0.55 0.65 amp
Amplification Factor (Each Unit)	1,2	1.4 2.6
Plate Current (Each Unit)	1,2	100 150 ma
Transconductance (Each Unit)	1,2	5800 8200 μmhos
Reverse Grid Current (Units in Parallel). 1,3	-	4 μamp
<p>Note 1: With 26.5 volts ac or dc on heater.</p> <p>Note 2: With plate-supply voltage of 135 volts, and cathode-bias resistor of 250 ohms in each cathode (both triode units operating).</p> <p>Note 3: With plate-supply voltage of 135 volts, grid resistor of 1 megohm in each grid and cathode-bias resistor of 250 ohms in each cathode (both triode units operating).</p> <p>[ⓐ] At hottest point on bulb surface.</p> <p>[ⓑ] When fixed bias is used, the plate circuit should contain a protective resistance to provide a minimum drop of 15 volts dc at the normal operating conditions.</p> <p>[ⓐ] When combined fixed- and cathode-bias is used, the cathode-bias portion should have a minimum value of 7.5 volts dc at the normal operating conditions.</p>		
SPECIAL RATINGS & PERFORMANCE DATA		
Shock Rating:		
Impact Acceleration	450 max.	g
Tubes are held rigid in four different positions in a Navy Type, High Impact (flyweight) Shock Machine and are subjected to 450 g impact acceleration.		
Fatigue Rating:		
Vibrational Acceleration	2.5 max.	g
Tubes are rigidly mounted and subjected in each of three positions to 2.5 g vibrational acceleration at 25 cycles per second for 32 hours.		
Low-Frequency Vibration Performance:		
RMS Output Voltage	200 max.	mv
Under the following conditions and with units connected in parallel: Heater voltage of 26.5 volts, plate voltage		
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supply of 135 volts, dc grid voltage of -7 volts, plate load resistance of 2000 ohms, and vibrational acceleration of 2.5 g at 25 cycles per second.

Outline Drawing and
Average Plate Characteristics Curve
for the 6082 are the same as
shown for Type 6080

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