SYLVANIA

TYPE 6287

JETEC Registration Data

PENTODE

The Type 6287 is a miniature audio beam-power pentode characterized by long life and stable performance. It is suitable for service where severe conditions of mechanical shock and vibration are encountered.

MECHANICAL DATA

GENERAL

Style ..... miniature
Cathode ..... coated unipotential
Bulb T-6 1/2
Base ..... E9-1, miniature button 9 pin
Basing 9CT
Connections:

Pin 1 - cathode	Pin 6 - plate
Pin 2 - grid #2	Pin 7 - grid #2
Pin 3 - plate	Pin 8 - grid #1
Pin 4 - heater	Pin 9 - plate
Pin 5 - heater	

Outline 5-4
Maximum Diameter ..... 0.875 inch
Maximum Overall Bulb Length.. 2.470 inches
Mounting Position ..... any

RATINGS(1)

Maximum Impact Acceleration(2) ... 450 g
Maximum Uniform Acceleration(3).. 1,000 g
Maximum Vibrational Acceleration for Extended Periods(4) ..... 2.5 g
Maximum Bulb Temperature ..... 300 °C

ELECTRICAL DATA

GENERAL

Heater Voltage (ac or dc) ..... 6.3 volts
Heater Current ..... 600 ma

Life Expectancy:
200 °C Ambient Temperature.. 1,000 hours
30 °C Ambient Temperature... 5,000 hours

Direct Interelectrode Capacitances:
Grid #1 to Plate(max.) ..... 1.1 μμf
Input ..... 8.0 μμf
Output ..... 9.0 μμf

RATINGS(1)-Absolute Values

Heater Voltage(ac or dc)(5)... 6.3(±5%) volts
Maximum Plate Voltage (dc)..... 275 volts
Maximum Grid #2 Voltage (dc)... 275 volts
Maximum Plate Dissipation .... 13.2 watts
Maximum Grid #2 Dissipation ... 3.2 watts
Maximum Cathode Current ..... 85 ma
Maximum Negative Grid #1 Voltage ..... 110 volts
Maximum Heater-Cathode Voltage ..... ±200 volts

CHARACTERISTICS

Conditions:
Heater Voltage (ac or dc) ... 6.3 volts
Plate Voltage (dc) ..... 250 volts
Grid #2 Voltage (dc) ..... 250 volts
Grid #1 Voltage (dc) ..... -12.5 volts
Plate Current ..... 46 ma
Grid #2 Current ..... 5.0 ma
Transconductance ..... 4,100 μmhos
Plate Resistance ..... 55,000 ohms

Grid #1 Voltage for 10 μa Plate Current ..... -60 volts

Noise Output Voltage(6), maximum ..... 300 mv

TYPICAL OPERATION

Audio Amplifier

Heater Voltage ..... 6.3 volts
Plate Voltage (dc) ..... 250 volts
Grid #2 Voltage (dc) ..... 250 volts
Grid #1 Voltage (dc) ..... -12.5 volts
Plate Load Resistor ..... 6,000 ohms
Grid #1 Signal Voltage (ac) ... 8.8 volts
Plate Current ..... 48 ma
Grid #2 Current ..... 10.5 ma
Power Output ..... 4.5 watts
Total Harmonic Distortion ..... 9.0 %

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(See page 2 for Notes)

Notes

(1) Limitations beyond which normal tube performance and tube life may be impaired.

(2) Forces in any direction as applied by the Navy Type High Impact (Flyweight) Shock Machine for Electronic Devices, or equivalent.

(3) Forces in any direction applied gradually, as in centrifuge.

(4) Vibrational forces in any direction at 60 cycles per second for a period exceeding 100 hours.

(5) Tube life and reliability of performance are directly related to the degree of regulation of the heater voltage to its center-rated value of 6.3 volts.

(6) Across plate resistor of 2,000 ohms, with applied vibrational acceleration of 2.5 g at 25 cycles per second.