

JETEC Registration Data**DOUBLE TRIODE**

The Type 6BF7A is a subminiature medium-mu double triode, designed for service where severe conditions of mechanical shock and vibration are encountered.

MECHANICAL DATAGENERAL

Style subminiature
Cathode coated unipotential
Bulb T-3
Base E8-10, Subminiature Button
Flexible Leads
Outline 3-2
Basing 8DG
Connections:
Lead 1 - #2 plate Lead 5 - #1 cathode
Lead 2 - #2 grid Lead 6 - heater
Lead 3 - heater Lead 7 - #1 grid
Lead 4 - #2 cathode Lead 8 - #1 plate

Maximum Diameter 0.400 inch
Maximum Overall Bulb Length 1.500 inches
Minimum Lead Length 1.500 inches
Mounting Position any

RATINGS(1)

Maximum Impact Acceleration(2) ... 450 g
Maximum Vibrational Acceleration
For Extended Periods(3) 2.5 g
Maximum Bulb Temperature 250 °C

ELECTRICAL DATAGENERAL

Heater Voltage (ac or dc) 6.3 volts
Heater Current 300 ma

Direct Interelectrode Capacitances:
Unshielded Shielded(4)

Grid to Plate
(each section) 1.5 1.5 μ f
Input (each section) .. 2.0 2.0 μ f
Output:
Section 1 0.28 1.6 μ f
Section 2 0.30 2.0 μ f
Grid to Grid 0.009 0.008 μ f
Plate to Plate 0.75 0.55 μ f

RATINGS(1)-Absolute Values

Heater Voltage 6.3($\pm 10\%$) volts
Maximum Plate Voltage (dc) 120 volts

Maximum Plate Dissipation
(each section) 1.1 watts
Maximum Heater-Cathode
Voltage ± 200 volts

CHARACTERISTICS (each section)

Conditions:
Heater Voltage 6.3 volts
Plate Voltage (dc) 100 volts
Cathode Bias Resistor 100 ohms
Plate Current 8 ma
Transconductance 4,800 μ mhos
Amplification Factor 35

Grid Voltage for 10 μ a
Plate Current -7.5 volts

Noise Output Voltage(5),
maximum 100 mv

Notes

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| <p>(1) Limitations beyond which normal tube performance and tube life may be impaired.</p> <p>(2) Forces in any direction as applied by the Navy Type High-Impact (Flyweight) Shock Machine for Electronic Devices, or equivalent.</p> <p>(3) Vibrational forces in any direction at 60 cycles per second for a period exceeding 100 hours.</p> | <p>(4) With external shield of 0.405 inch diameter connected to cathode of section under test.</p> <p>(5) Across plate resistor of 2,000 ohms, with applied vibrational acceleration of 15 g at 40 cycles per second, sections tied in parallel.</p> |
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