The 6EZ8 is a miniature, high-mu, triple triode. The cathodes of Sections 1 and 2 have a common connection with one side of the heater. The cathode of Section 3 is brought out to a separate base pin.

### GENERAL

**Electrical**
- Cathode—Coated Unipotential
- Heater Voltage, AC or DC: 6.3 ± 10% Volts
- Heater Current: 0.45 Amperes
- Direct Inter-electrode Capacitances
  - Grid to Plate, Each Section: 1.5 μf
  - Input, Each Section: 2.6 μf
  - Output, Section 1: 1.4 μf
  - Output, Section 2: 1.2 μf
  - Output, Section 3: 1.2 μf
  - Heater to Cathode, Section 3: 0.15 μf

**Mechanical**
- Mounting Position—Any
- Envelope—T-6½, Glass
- Base—E9-1, Small Button 9-Pin

### MAXIMUM RATINGS

**Design-Maximum Values, Each Section**
- Plate Voltage: 330 Volts
- Positive DC Grid Voltage: 0 Volts
- Negative DC Grid Voltage: 50 Volts
- Plate Dissipation, Each Plate: 2.0 Watts
- Total Plate Dissipation, All Plates: 5.0 Watts
- Heater-Cathode Voltage (Section 3)
  - Heater Positive with Respect to Cathode: 100 Volts
  - Heater Negative with Respect to Cathode: 100 Volts

Design-Maximum ratings are limiting values of operating and environmental conditions applicable to a bogey tube of a specified type as defined by its published data, and should not be exceeded under the worst probable conditions.

The tube manufacturer chooses these values to provide acceptable serviceability of the tube, taking responsibility for the effects of changes in operating conditions due to variations in tube characteristics.

The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey tube under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, and environmental conditions.

The tubes and arrangements disclosed herein may be covered by patents of General Electric Company or others. Neither the disclosure of any information herein nor the sale of tubes by General Electric Company conveys any license under patent claims covering combinations of tubes with other devices or elements. In the absence of an express written agreement to the contrary, General Electric Company assumes no liability for patent infringement arising out of any use of the tubes with other devices or elements by any purchaser of tubes or others.
CHARACTERISTICS AND TYPICAL OPERATION

AVERAGE CHARACTERISTICS, EACH SECTION

Plate Voltage ......................................................... 125 Volts
Grid Voltage ........................................................ -1.0 Volts
Amplification Factor ................................................ 0.57
Plate Resistance, approximate ................................. 13600 Ohms
Transconductance ............................................... 4200 Micromhos
Plate Current ....................................................... 4.2 Milliamperes
Grid Voltage, approximate
I_g = 20 Microamperes ........................................... -4 Volts

* With external shield (EIA 315) connected to cathode of section under test.