



**ELECTRONIC  
INNOVATIONS**  
IN ACTION

**TUBES**

**—PRODUCT INFORMATION—**

**6BZ3**

**Compactron Diode**

**FOR TV DAMPING DIODE APPLICATIONS**

The 6BZ3 is a compactron containing a single heater-cathode type diode intended for service as the damping diode in the horizontal-deflection circuit of television receivers.

**GENERAL**

**ELECTRICAL**

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC\* . . . 6.3±0.06 Volts

Heater Current† . . . . . 1.2 Amperes

Direct Interelectrode Capacitances, approximate‡

Cathode to Plate and Heater:

k to (p + h) . . . . . 11 pf

Plate to Cathode and Heater:

p to (k + h) . . . . . 8.5 pf

Heater to Cathode: (h to k) . . . 3.4 pf

**MECHANICAL**

Operating Position - Any

Envelope - T-9, Glass

Base - E12-70, Button 12-Pin

Outline Drawing - EIA 9-60

Maximum Diameter . . . . . 1.188 Inches

Minimum Diameter . . . . . 1.062 Inches

Maximum Over-all Length . . . . 2.875 Inches

Maximum Seated Height. . . . . 2.500 Inches

Minimum Seated Height. . . . . 2.250 Inches

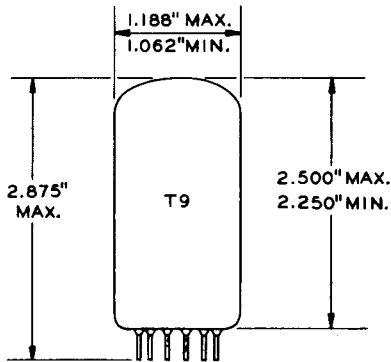
**MAXIMUM RATINGS**

Design-Maximum ratings are limiting values of operating and environmental conditions applicable to a bogey electron 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, making allowance for the effects of changes in operating conditions due to variations in the characteristics of the tube under consideration.

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, environmental conditions, and variations in the characteristics of all other electron devices in the equipment.

**PHYSICAL DIMENSIONS**

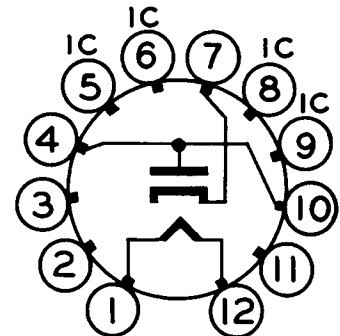


EIA 9-60

**TERMINAL CONNECTIONS**

- Pin 1 - Heater
- Pin 2 - No Connection
- Pin 3 - No Connection
- Pin 4 - Plate
- Pin 5 - Internal Connection - Do Not Use
- Pin 6 - Internal Connection - Do Not Use
- Pin 7 - Cathode
- Pin 8 - Internal Connection - Do Not Use
- Pin 9 - Internal Connection - Do Not Use
- Pin 10 - Plate
- Pin 11 - No Connection
- Pin 12 - Heater

**BASING DIAGRAM**



EIA 12FX

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