

OBJECTIVE FOR DEVELOPMENTAL TYPE

Z-2689*

PLANAR DIODE

The Z-2689 is a cathode-type diode of ceramic and metal planar construction intended for use as a low-current rectifier.

GENERAL

Electrical

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC+

6.3±0.6 Volts

Heater Current†

0.4 Amperes

Direct Interelectrode Capacitances§

Plate to Cathode

2.5 pf

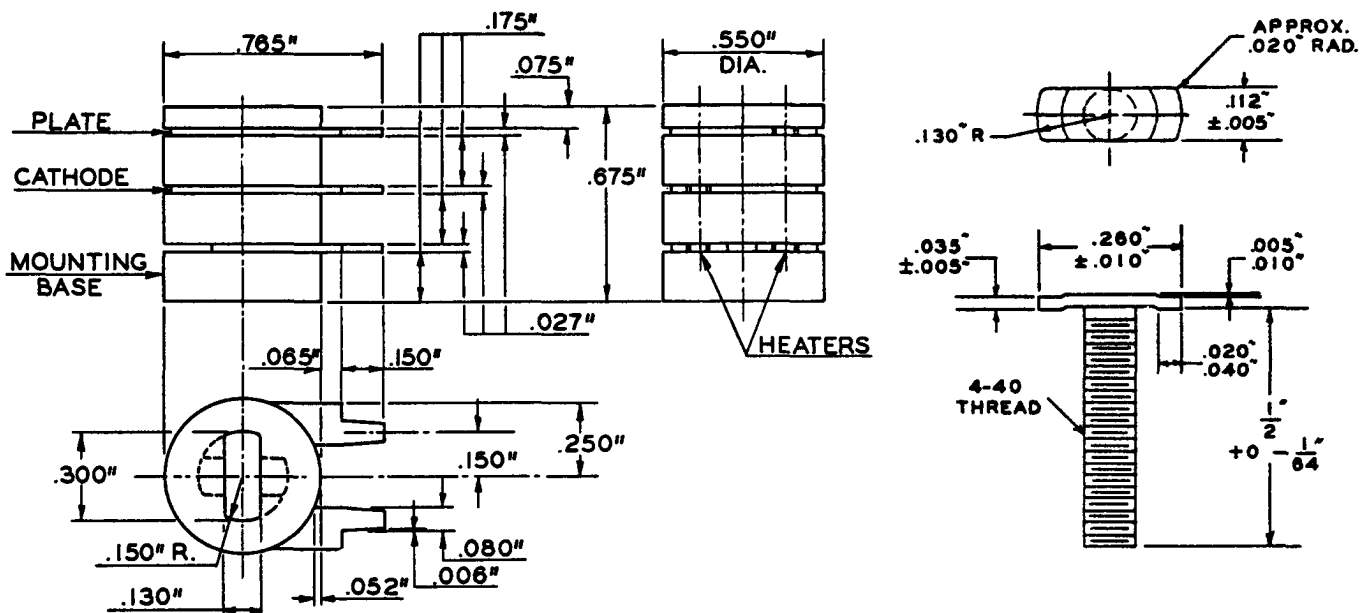
Heater to Cathode

2.6 pf

Mechanical

Operating Position - Any

→ Outline Drawing



MAXIMUM RATINGS

Design-Maximum Values

Peak Inverse Plate Voltage	1000	Volts
Steady-State Peak Plate Current	150	Milliamperes
DC Output Current	25	Milliamperes
Heater-Cathode Voltage		
Heater Positive with Respect to Cathode		
DC Component	175	Volts
Total DC and Peak	225	Volts
Heater Negative with Respect to Cathode		
DC Component	175	Volts
Total DC and Peak	225	Volts
Envelope Temperature at Hottest Point	300	C

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.

AVERAGE CHARACTERISTICS

Tube Voltage Drop

Ib = 40 Milliamperes DC

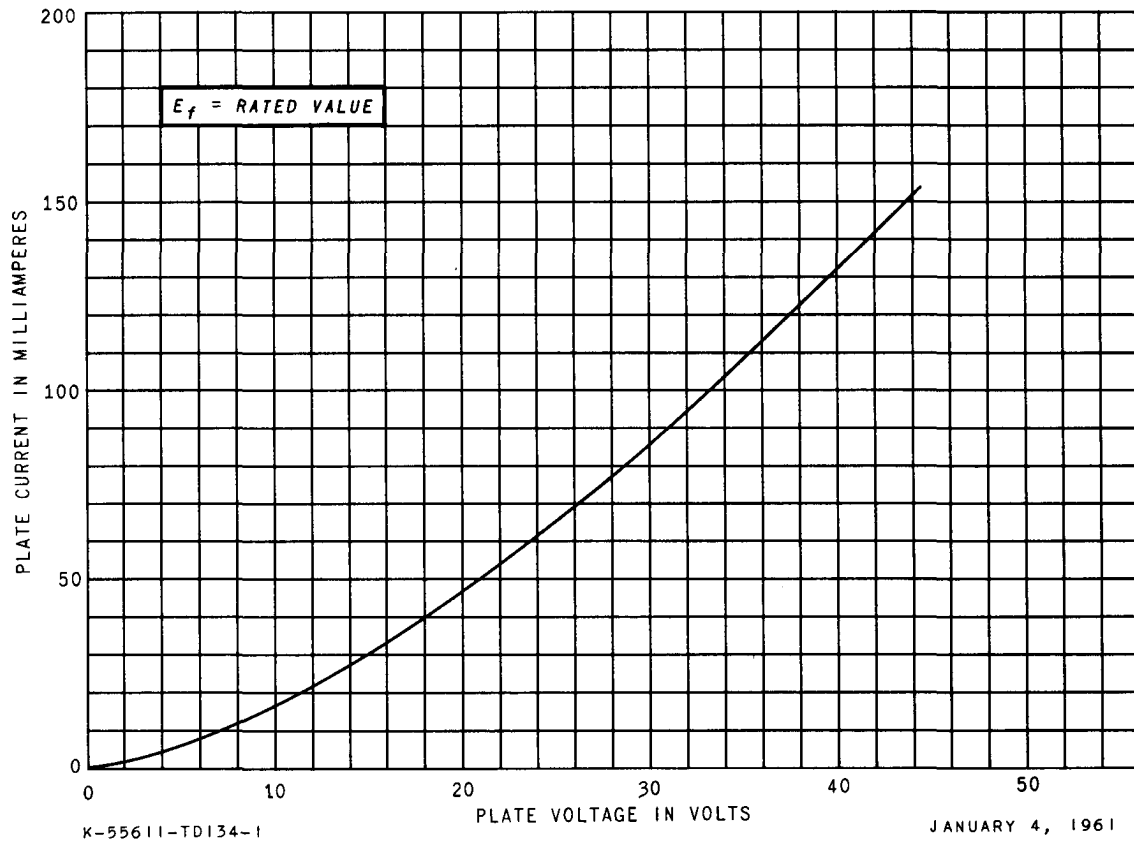
15 Volts

- * Publication of these data does not obligate the General Electric Company to manufacture a tube with these characteristics.
- + The equipment designer should design the equipment so that heater voltage is centered at the specified bogey value, with heater supply variations restricted to maintain heater voltage within the specified tolerance.
- ‡ Heater current of a bogey tube at Ef = 6.3 volts.
- § Without external shield.

2/18/63 (B)
Supersedes 11/29/62 (B)

Z-2689

AVERAGE PLATE CHARACTERISTICS



RECEIVING TUBE DEPARTMENT

GENERAL  **ELECTRIC**

Owensboro, Kentucky