

OBJECTIVE FOR DEVELOPMENTAL TYPE

Z-2835*

TRIODE

The Z-2835 is a high-mu triode of ceramic-and-metal planar construction. The tube is intended for radio-frequency oscillator and power-amplifier applications.

GENERAL

Electrical

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC+

6.3±0.3

Volts

Heater Current‡

0.4

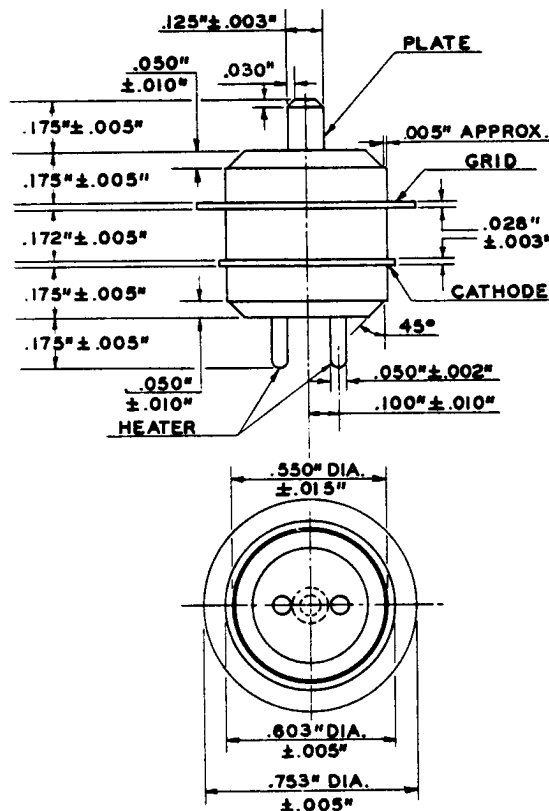
Amperes

Direct Interelectrode Capacitances§

| | | | |
|---|---|------|----|
| → | Grid to Plate: (g to p) | 1.4 | pf |
| → | Grid to Cathode and Heater: g to (h + k) | 5.1 | pf |
| | Plate to Cathode and Heater: p to (h + k) | 0.03 | pf |
| | Heater to Cathode: (h to k) | 2.4 | pf |

Mechanical

Operating Position - Any



MAXIMUM RATINGS

Absolute-Maximum Values

| | | |
|---|------|--------------|
| Plate Voltage | 330 | Volts |
| Positive DC Grid Voltage | 0 | Volts |
| Negative DC Grid Voltage | 50 | Volts |
| Plate Dissipation | 5.5 | Watts |
| DC Grid Current | 10 | Milliamperes |
| DC Cathode Current | 30 | Milliamperes |
| Peak Cathode Current | 120 | Milliamperes |
| Cathode-Cathode Voltage | | |
| Heater Positive with Respect to Cathode | 50 | Volts |
| Heater Negative with Respect to Cathode | 50 | Volts |
| Grid Circuit Resistance | | |
| With Fixed Bias | 0.1 | Megohms |
| With Cathode Bias | 0.18 | Megohms |
| Bulb Temperature at Hottest Point | 250 | C |

Absolute-Maximum ratings are limiting values of operating and environmental conditions applicable to any 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 no allowance for equipment variations, environmental variations, and the effects of changes in operating conditions due to variations in the characteristics of the tube under consideration and of all other electron devices in the equipment.

The equipment manufacturer should design so that initially and throughout life no absolute-maximum value for the intended service is exceeded with any 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 the tube under consideration and of all other electron devices in the equipment.

CHARACTERISTICS AND TYPICAL OPERATION

Average Characteristics

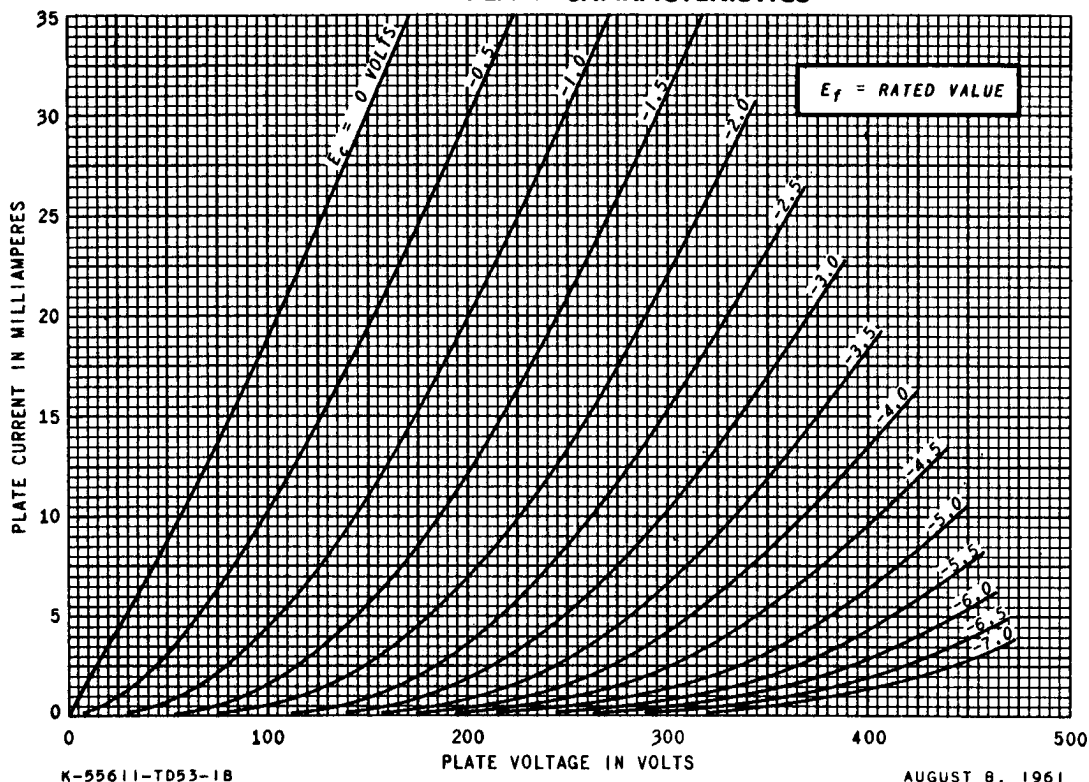
| | | |
|----------------------------------|-------|--------------|
| Plate Voltage | 200 | Volts |
| Cathode-Bias Resistor | 68 | Ohms |
| Amplification Factor | 90 | |
| Plate Resistance, approximate | 5450 | Ohms |
| Transconductance | 16500 | Micromhos |
| Plate Current | 17 | Milliamperes |
| Grid Voltage, approximate | | |
| I _b = 10 Microamperes | -5.5 | Volts |

Z-2835

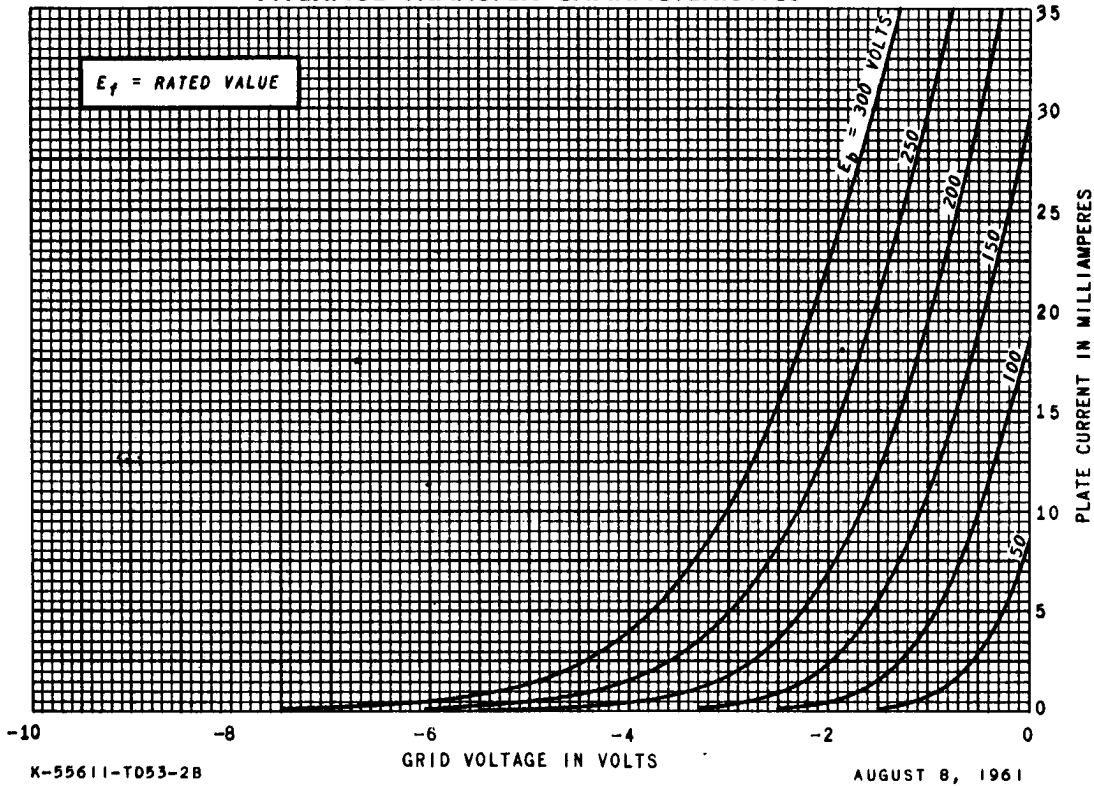
- * Publication of these data does not obligate the General Electric Company to manufacture a tube with these characteristics.
- + The equipment designer should design the equipment so that the heater voltage is centered at the specified bogey value, with heater supply variations restricted to maintain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

2/15/63 (B)
Supersedes 12/7/61 (B)

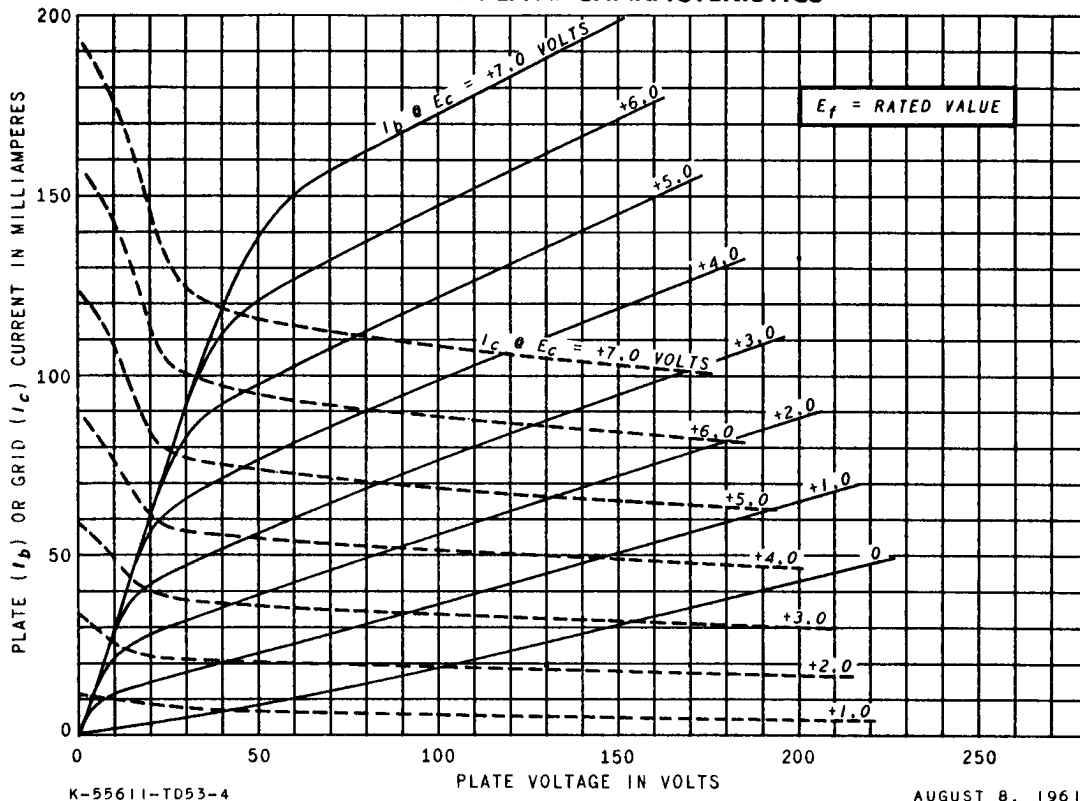
AVERAGE PLATE CHARACTERISTICS



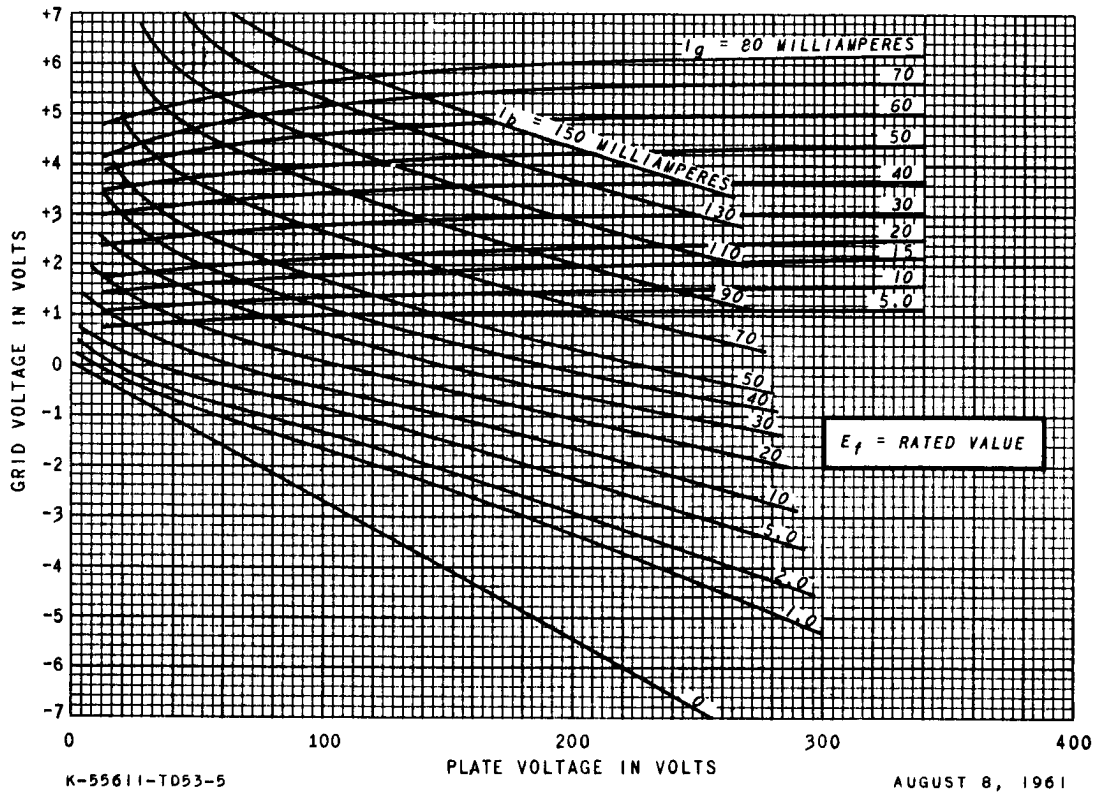
AVERAGE TRANSFER CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE CONSTANT-CURRENT CHARACTERISTICS



AVERAGE CHARACTERISTICS

