THYRATRON

DESCRIPTION

The GL-885 is an inert-gas-filled thyratron designed for use as a sweep-circuit oscillator in cathode-ray tube circuits. This tube may also be used for general control applications where it is desired to actuate the tube with a change in negative grid voltage.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes	3	
Electrical		
Cathode—Indirectly heated type		
Voltage	2.5	volts
Current, approx	1.4	ampere
Heating time, typical	30	seconds
Peak voltage drop, approx.	16	volts
Approximate control characteristics		
Anode voltage	300	volts
Grid voltage	−30	volts
Capacitance, approx		
Grid-to-anode	3.5	micromicrofarads
Grid-to-cathode	3.5	micromicrofarads
Anode-to-cathode	2.5	micromicrofarads
Mechanical		
Net weight, approx	3	ounces
Shipping weight, approx	3	pounds

Electronic TUBE

GENERAL ELECTRIC

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

SWEEP-CIRCUIT OSCILLATOR RATING

Maximum anode voltage		
Peak, between any two electrodes	350	volts
Instantaneous	300	volts
Maximum anode current		
Peak	300	milliamperes
Average, 200 cycles per second and above	2	milliamperes
Average, below 200 cycles per second	3	milliamperes

GRID-CONTROLLED RECTIFIER RATING

(For frequencies below 75 cycles per second)		
Maximum peak anode voltage	350	volts
Maximum peak anode current	300	milliamperes
Maximum anode current*	75	milliamperes

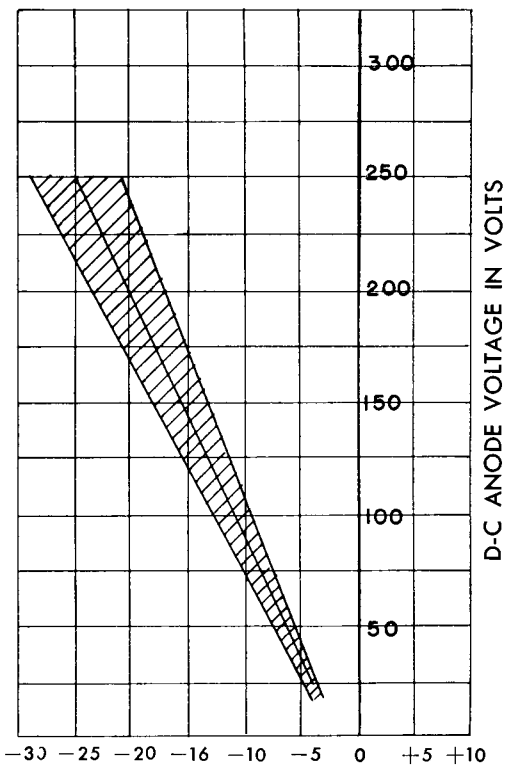
**Averaged over period of not more than 30 seconds.*

OPERATING NOTES

For both classes of service the grid resistor used should not be less than 1000 ohms per maximum instantaneous volt applied to the grid. Resistance values in excess of 0.5 megohms may cause circuit instability.

GL-885 TYPICAL CONTROL CHARACTERISTICS
SHADED AREA SHOWS RANGE OF CHARACTERISTICS

GL-885 — $E_f = 2.5$ VOLTS



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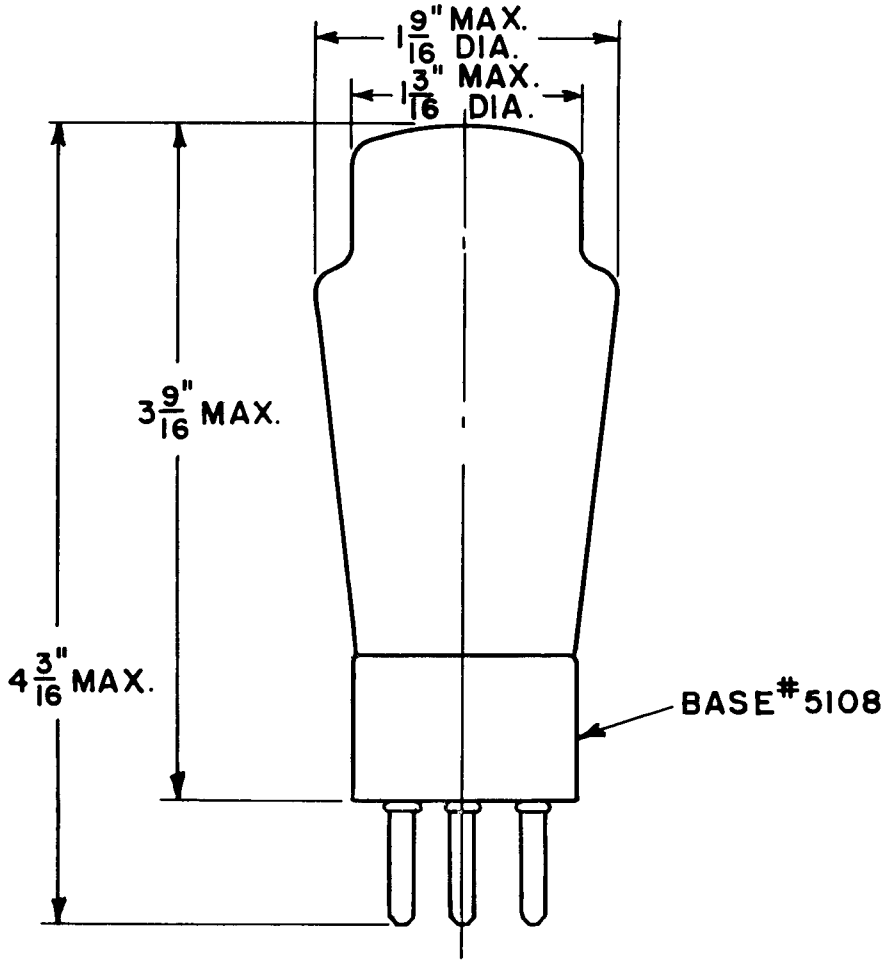

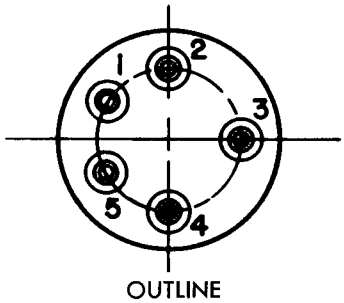

OUTLINE
GL-885 THYRATRON

PIN	CONNECTIONS
1	HEATER
2	ANODE
3	GRID
4	CATHODE
5	HEATER

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Electronics Department
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4-45 (4M)
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