



THYRATRON

DESCRIPTION

The GL-2050 is a small, double-grid, inert-gas-filled thyatron designed for grid-controlled rectifier service. The control characteristic is independent of ambient temperature over a wide range. The tube is not appreciably affected by line-voltage

surges because of the low grid-to-anode capacitance. High sensitivity, the result of low grid current which allows the use of high resistance in the grid circuit, permits operation of the GL-2050 thyatron from a vacuum-type phototube.

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Number of electrodes.....4

Electrical

Cathode—Indirectly heated type

Voltage.....6.3 volts

Current, approx.....0.6 ampere

Heating time, minimum.....10 seconds

Peak voltage drop, approx.....8 volts

Grid resistors*

Minimum.....0.01 megohm

Maximum.....10 megohms

Anode to control-grid capacitance, approx.....0.26 micromicrofarad

**When this tube is operated with an alternating anode voltage and a high value of grid-circuit resistance, the grid-anode capacitance should be made as small as possible by placing the grid resistor directly at the socket terminal, by connecting pins 4 and 8 together at the socket, and by using a close fitting bulb shield connected to the cathode terminal.*


Electronic
TUBE

GENERAL  ELECTRIC

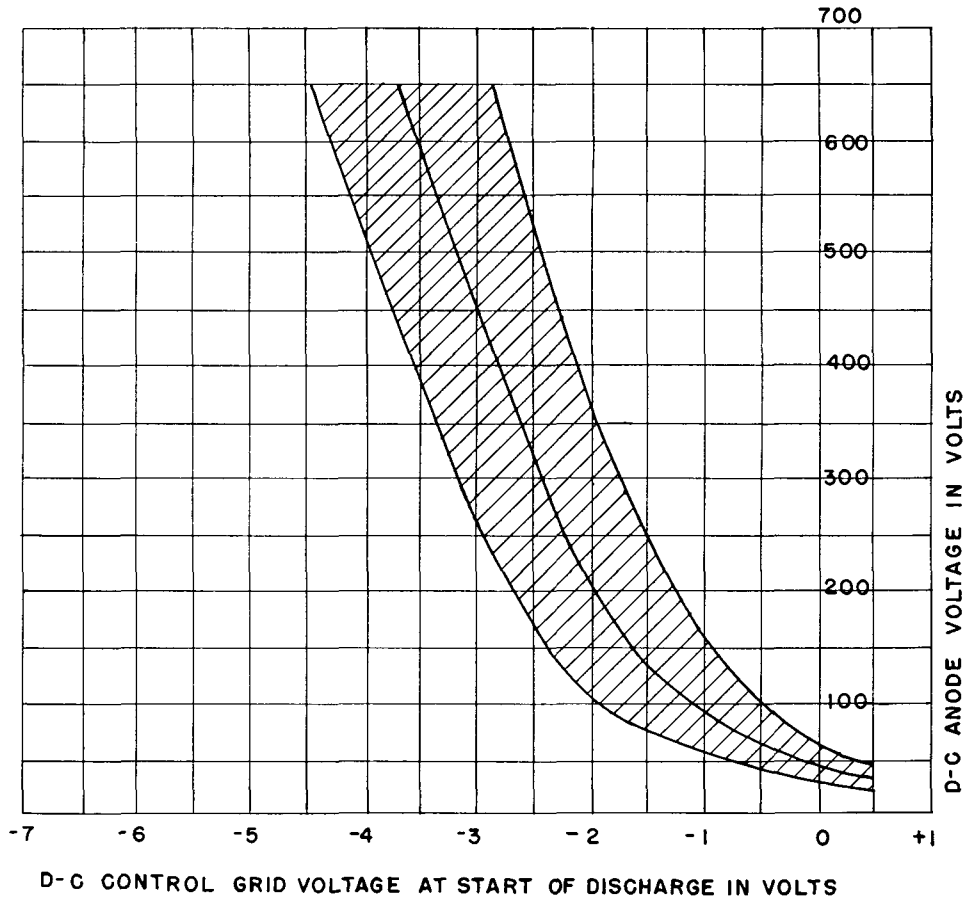
TECHNICAL INFORMATION (CONT'D)

Mechanical

Net weight, approx.....	2	ounces
Shipping weight, approx.....	3	pounds
Operating position.....		vertical or horizontal

MAXIMUM RATINGS

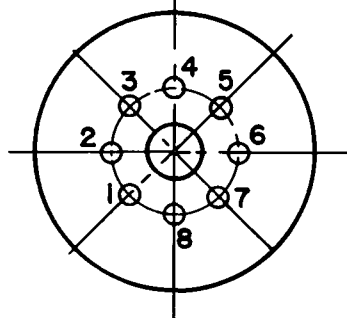
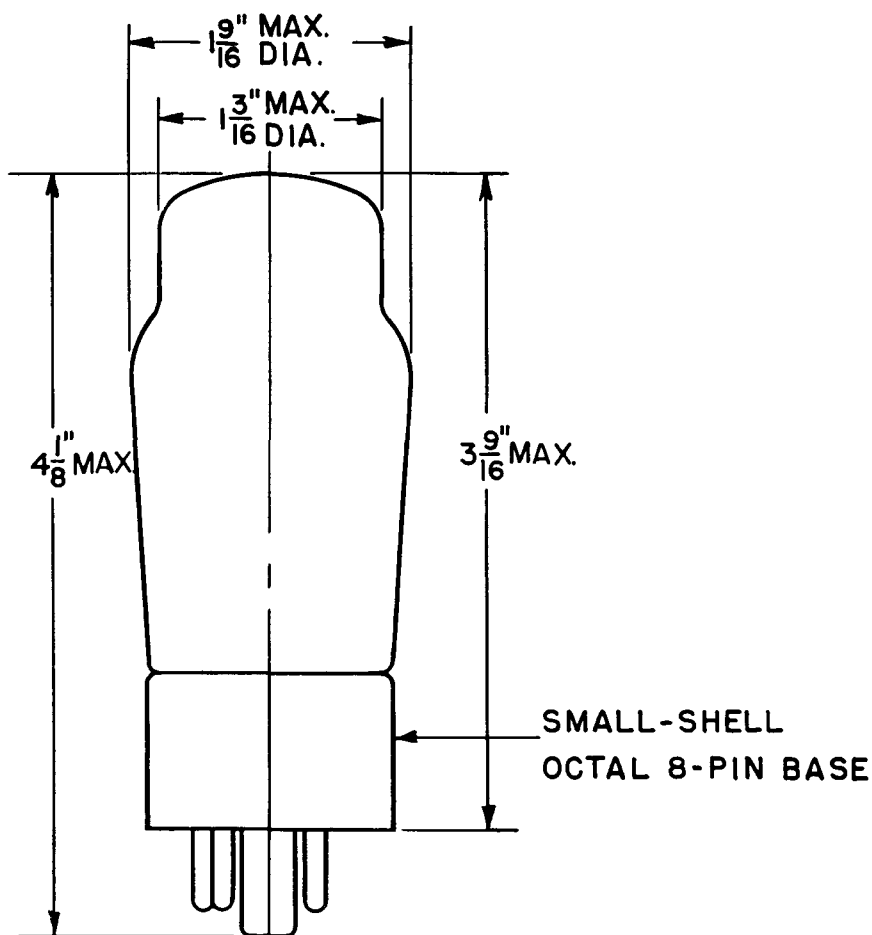
Maximum peak anode voltage		
Inverse.....	1300	volts
Forward.....	650	volts
Shield-grid voltage.....	-100	volts
Control-grid voltage.....	-100	volts
Maximum anode current		
Instantaneous.....	500	milliamperes
Average.....	100	milliamperes
Maximum time of averaging current.....	30	seconds



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GL-2050
TYPICAL CONTROL CHARACTERISTICS
SHADED AREA SHOWS RANGE OF CHARACTERISTICS
SHIELD GRID CONNECTED TO CATHODE



OUTLINE
GL-2050 THYRATRON

PIN	CONNECTION
1	NO CONNECTION
2	HEATER
3	ANODE
4	NO CONNECTION
5	CONTROL GRID
6	SHIELD GRID
7	HEATER
8	CATHODE

