



THYRATRON

DESCRIPTION

The GL-2051 is a small, double-grid, inert-gas-filled thyratron designed for grid-control 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-2051 thyratron from a vacuum type phototube.

RECOMMENDED FOR REPLACEMENT ONLY

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.....14 volts

Grid resistor*

Minimum.....0.01 megohm

Maximum.....10 megohms

Anode to control-grid capacitance, approx.....0.2 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.*



GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)

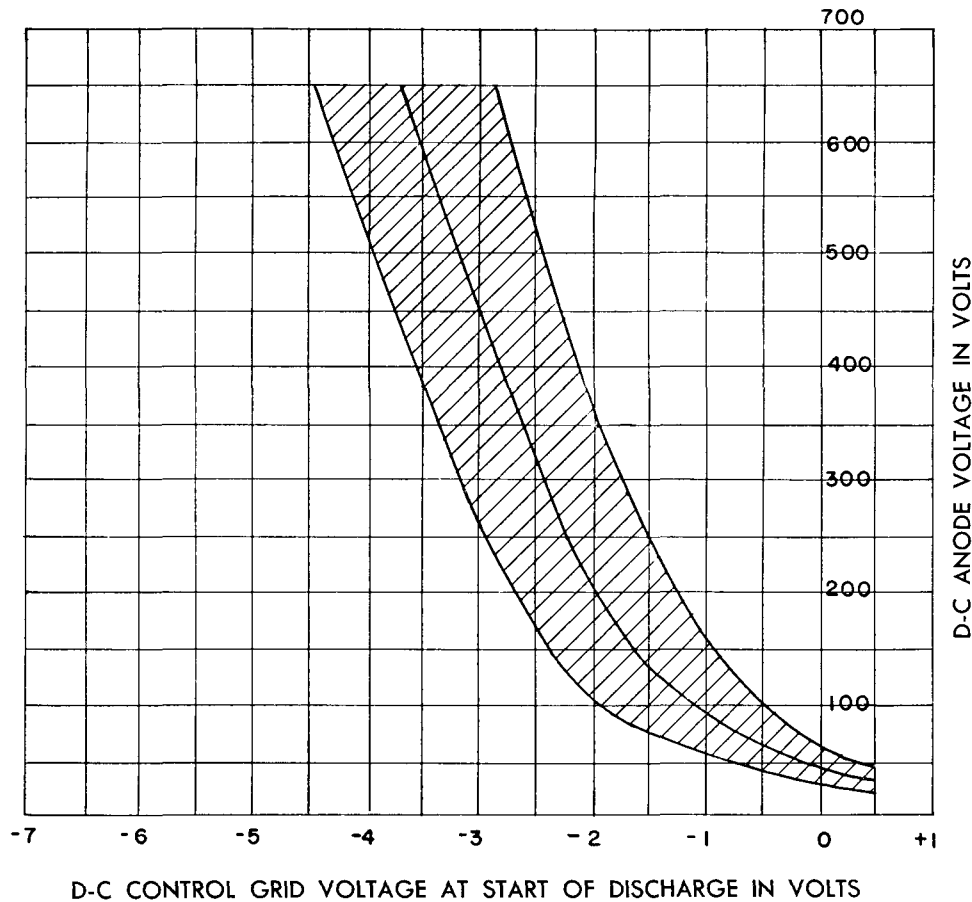
Mechanical

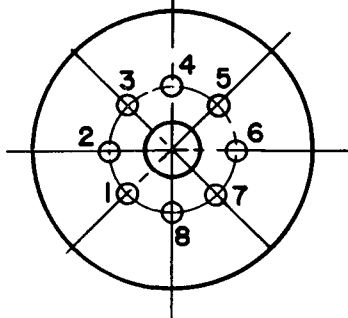
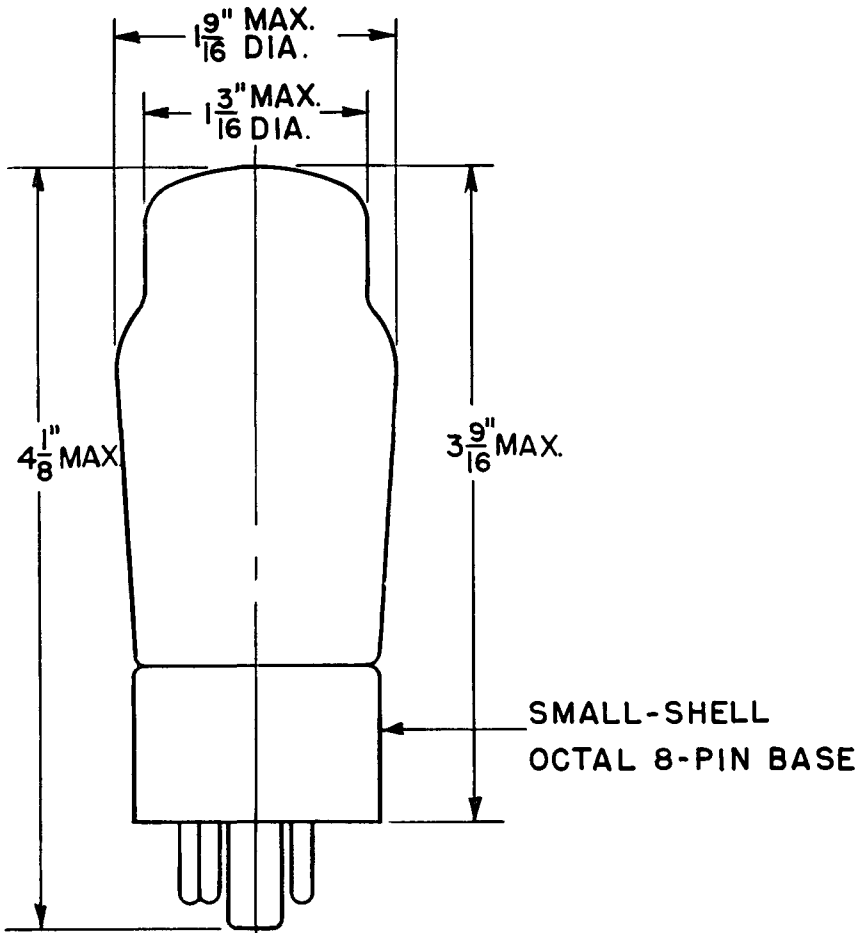
Net weight, approx.	2	ounces
Shipping weight, approx.	3	pounds
Operating position		Vertical or horizontal

MAXIMUM RATINGS

Maximum peak anode voltage		
Inverse	700	volts
Forward	350	volts
Shield-grid voltage	0	volts
Maximum anode current		
Instantaneous	375	milliamperes
Average	75	milliamperes
Maximum time of averaging current	30	seconds

GL-2051
TYPICAL CONTROL CHARACTERISTICS
SHADED AREA SHOWS RANGE OF CHARACTERISTICS
SHIELD GRID CONNECTED TO CATHODE





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

