



THYRATRON

DESCRIPTION

The GL-393-A thyatron is designed for regulated-rectifier circuits. The use of a gas mixture of argon and mercury vapor provides constancy of

characteristics within wide temperature limits. The construction, however, enables the tube to withstand higher voltages than many gas-filled types.

RECOMMENDED FOR REPLACEMENT ONLY

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Number of electrodes.....	3		
Electrical			
Cathode—Filamentary type			
Filament voltage.....	2.5	volts	
Filament current, approx.....	7.0	amperes	
Filament heating time, typical.....	15	seconds	
Peak voltage drop, approx.....	15	volts	
Approximate starting characteristics			
Anode voltage.....	25	100	500 volts
Grid voltage.....	0	-2.5	-4.5 volts
Deionization time, approx.....	1000	microseconds	
Mechanical			
Net weight, approx.....	3	ounces	
Shipping weight, approx.....	3	pounds	
Mounting position.....	vertical, base down		

GENERAL ELECTRIC

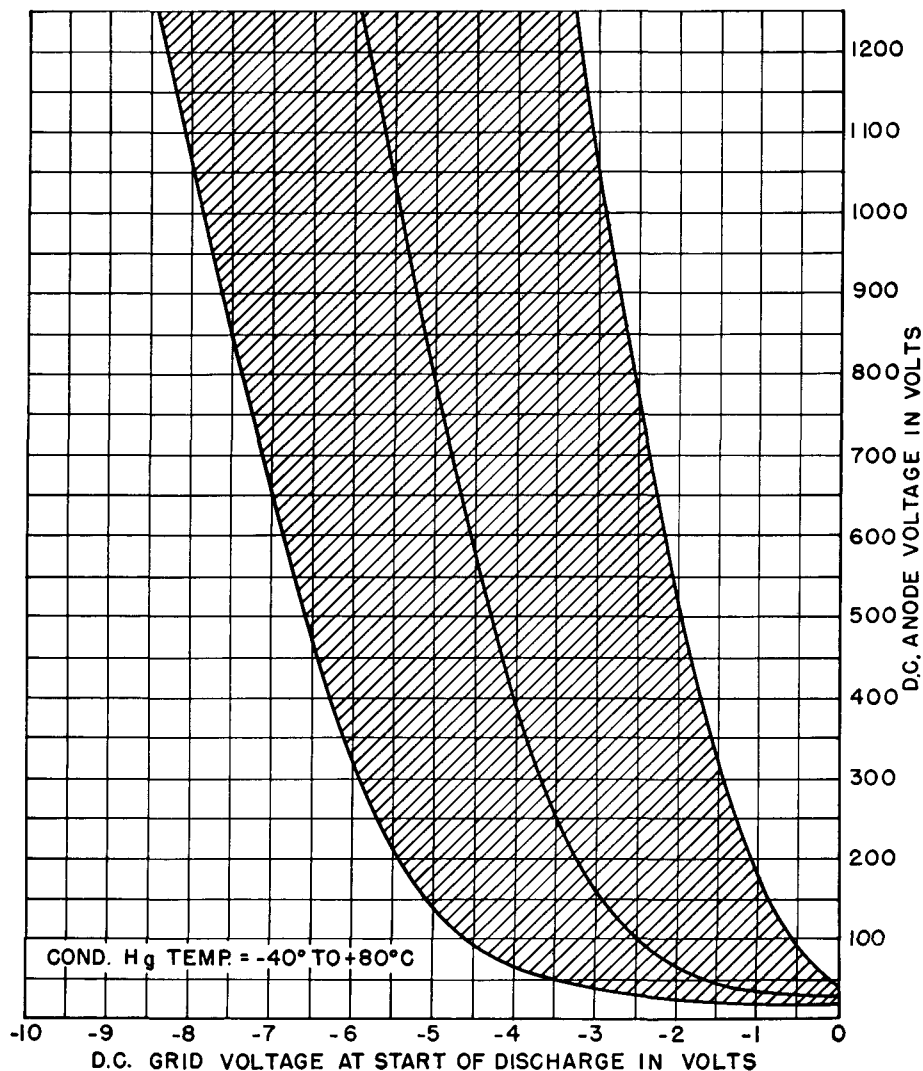

Electronic
TUBE

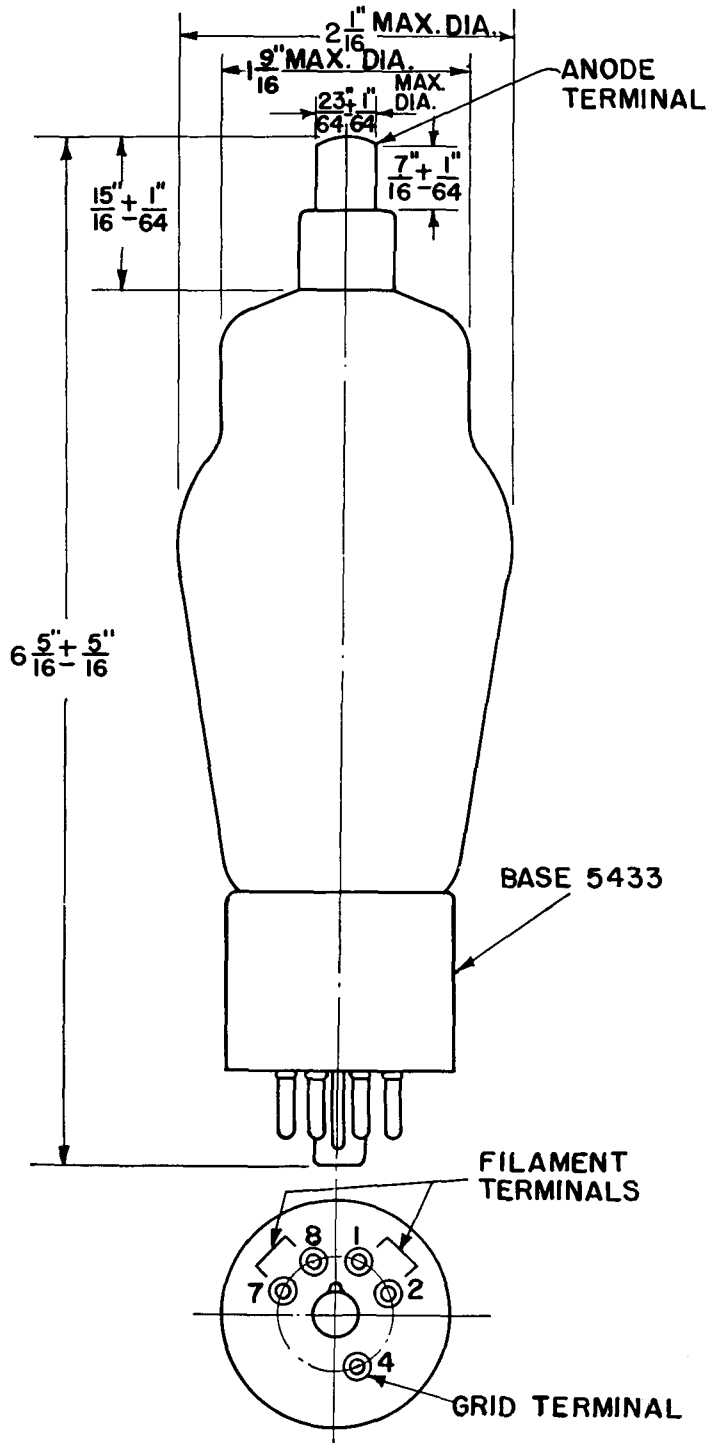
TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Maximum peak anode voltage	
Inverse.....	1250 volts
Forward.....	1250 volts
Maximum negative grid voltage	
Before conduction.....	500 volts
During conduction.....	10 volts
Maximum anode current	
Instantaneous, 25 cycles and above.....	6.0 amperes
Instantaneous, below 25 cycles.....	3.0 amperes
Average.....	1.5 amperes
Surge, for design only.....	.55 amperes
Maximum grid current	
Instantaneous.....	0.050 ampere
Average.....	0.010 ampere
Maximum time of averaging current.....	.5 seconds
Temperature limits.....	-40 to +80 centigrade

THYRATRON GL-393-A
TYPICAL CONTROL CHARACTERISTICS
SHADED AREA SHOWS RANGE OF CHARACTERISTIC





K-8271003

9-23-44

OUTLINE
GL-393-A THYRATRON

