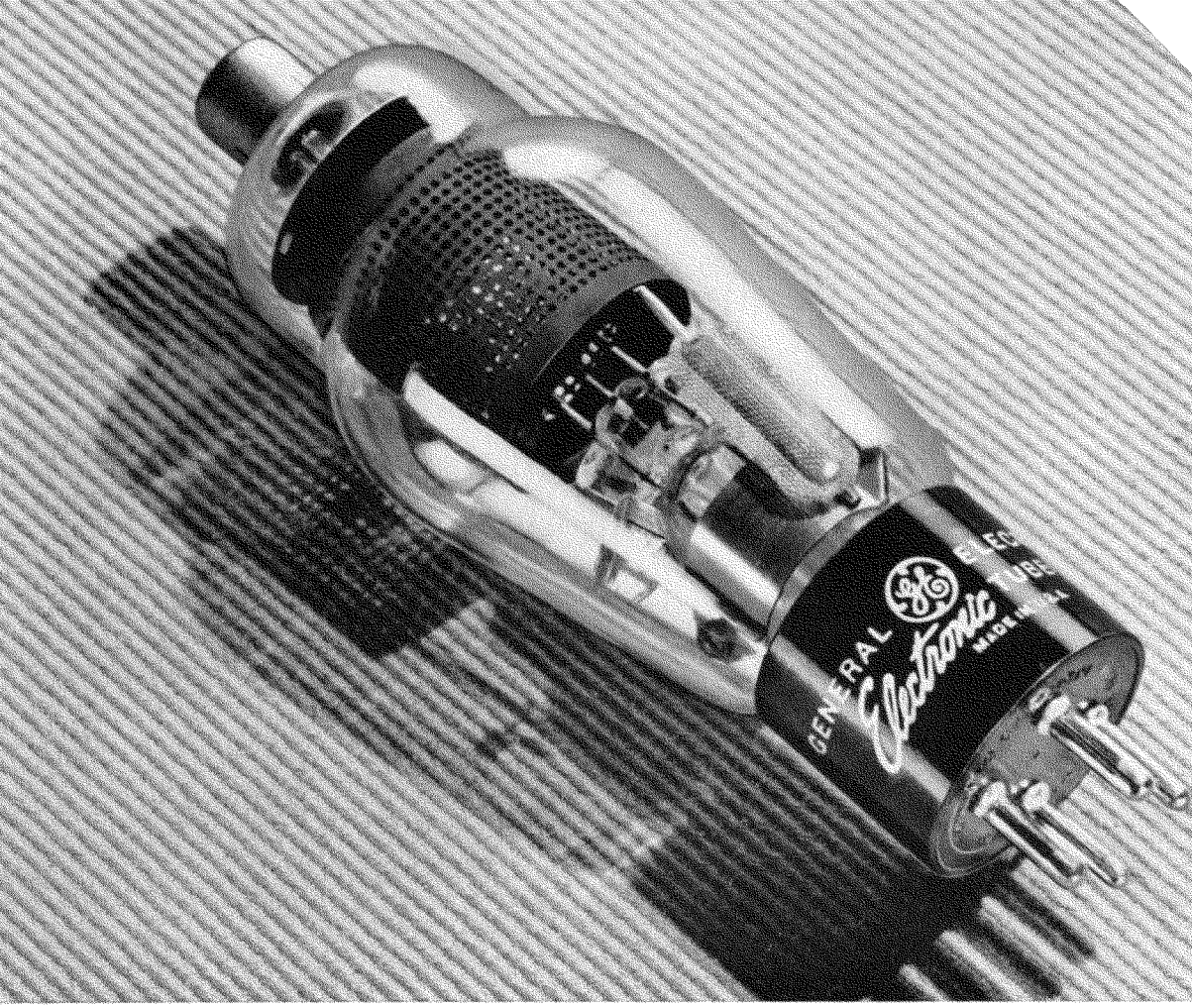


THYRATRON

DESCRIPTION

The GL-3C23 is a negative-control thyratron for use in regulated-rectifier circuits. The mixture of inert-gas and mercury vapor provides constancy of characteristic within wide temperature limits. The construction, however, enables the tube to withstand higher voltages than many gas-filled types.

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, typical				16 volts
Approximate control characteristics				
Anode voltage	25	100	500	volts
Grid voltage	0	−2.5	−4.5	volts
Anode-to-grid capacitance, approx				1.8 micromicrofarad
Ionization time, approx.				10 microseconds
Deionization time, approx.				1000 microseconds
Mechanical				
Net weight, approx.				3 ounces
Shipping weight, approx.				3 pounds
Mounting position				vertical, base down

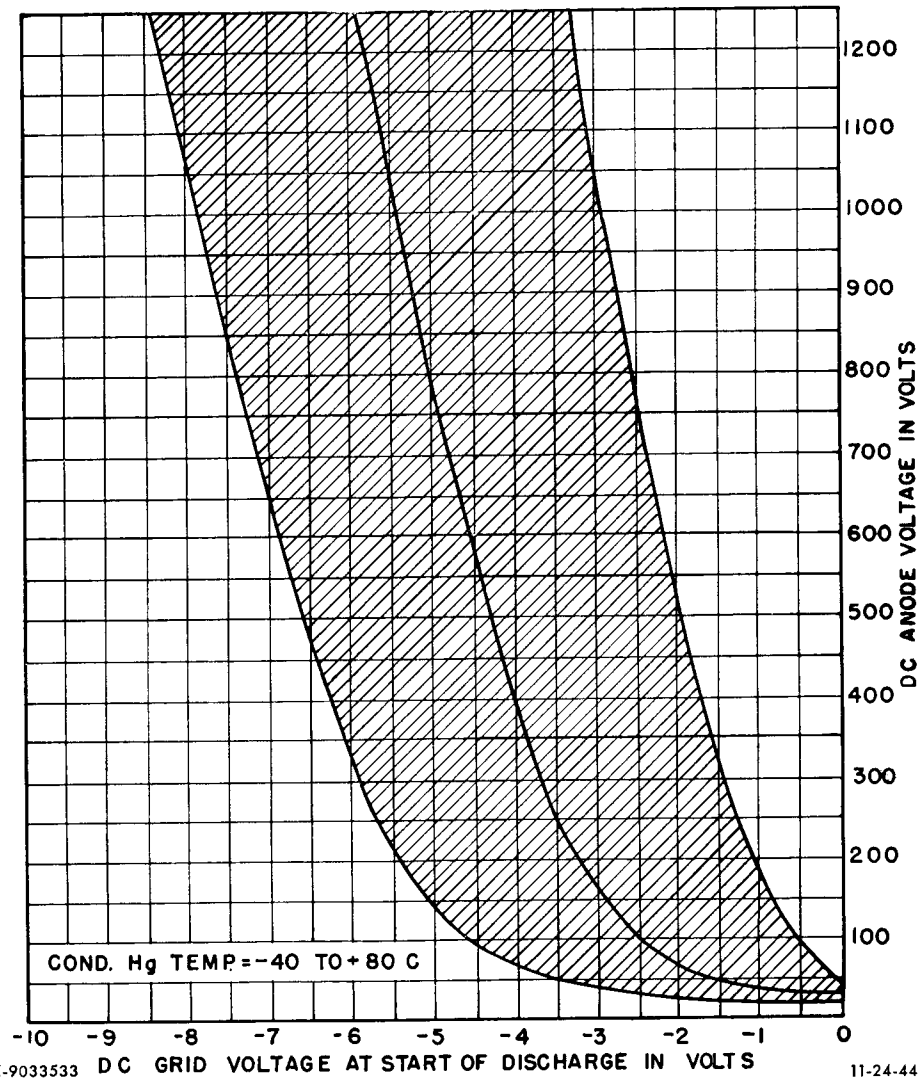
GE Electronic TUBE

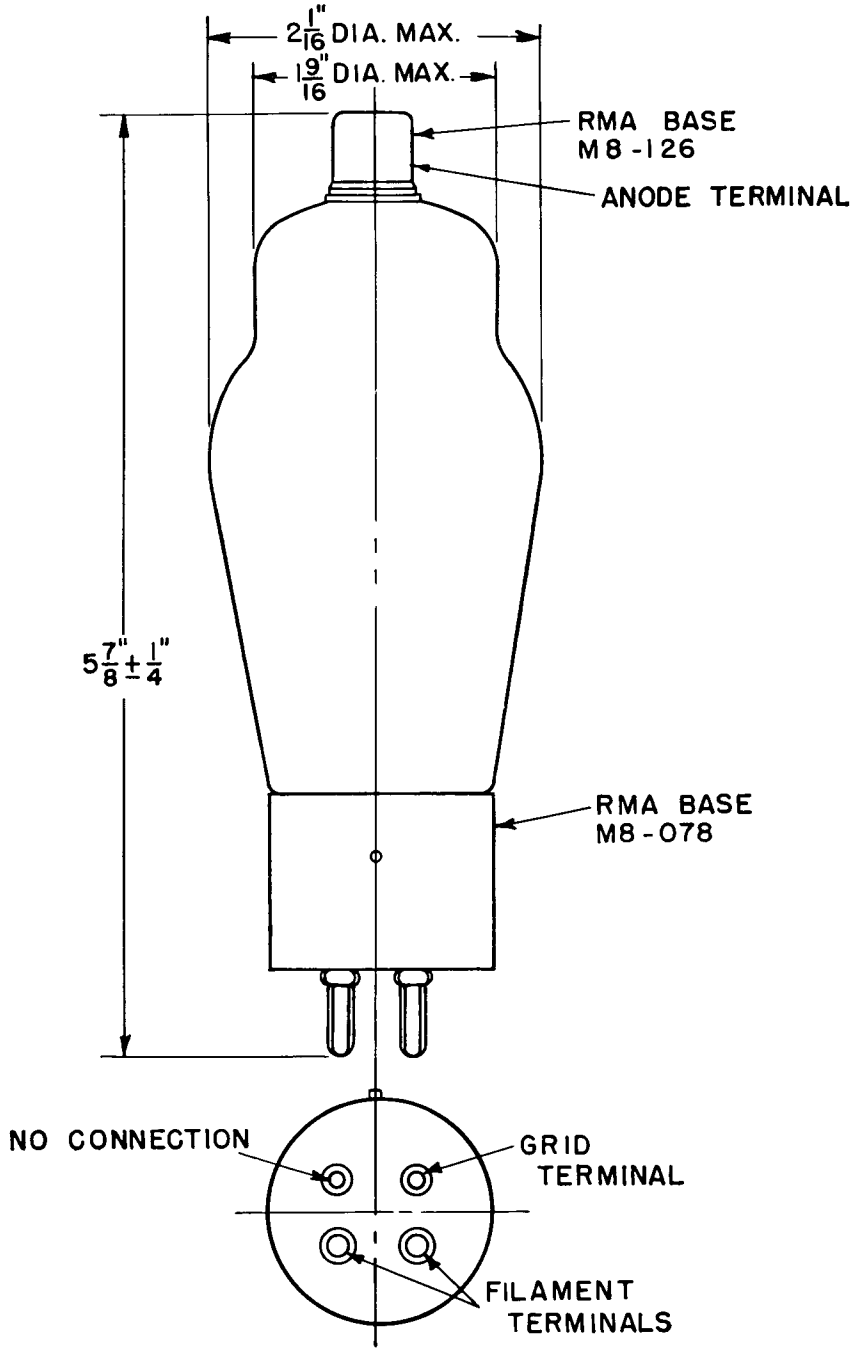
TECHNICAL INFORMATION (CONT'D)

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, 210 to 400 cycles	1.0	ampere
Average, below 210 cycles	1.5	ampere
Surge, for design only	120	amperes
Duration of surge current	0.1	second
Maximum grid current		
Instantaneous	0.050	ampere
Average	0.010	ampere
Maximum time of averaging current	5	seconds
Temperature limits, condensed mercury	−40 to +80	centigrade
Recommended temperature, condensed mercury	+40	centigrade

THYRATRON GL-3C23
TYPICAL CONTROL CHARACTERISTICS
SHADED AREA SHOWS RANGE OF CHARACTERISTIC





OUTLINE

GL-3C23 THYRATRON

K-8639392

6-9-44

Electronics Department
GENERAL ELECTRIC
Schenectady, N. Y.

4-45 (4M)
Filing No. 8850