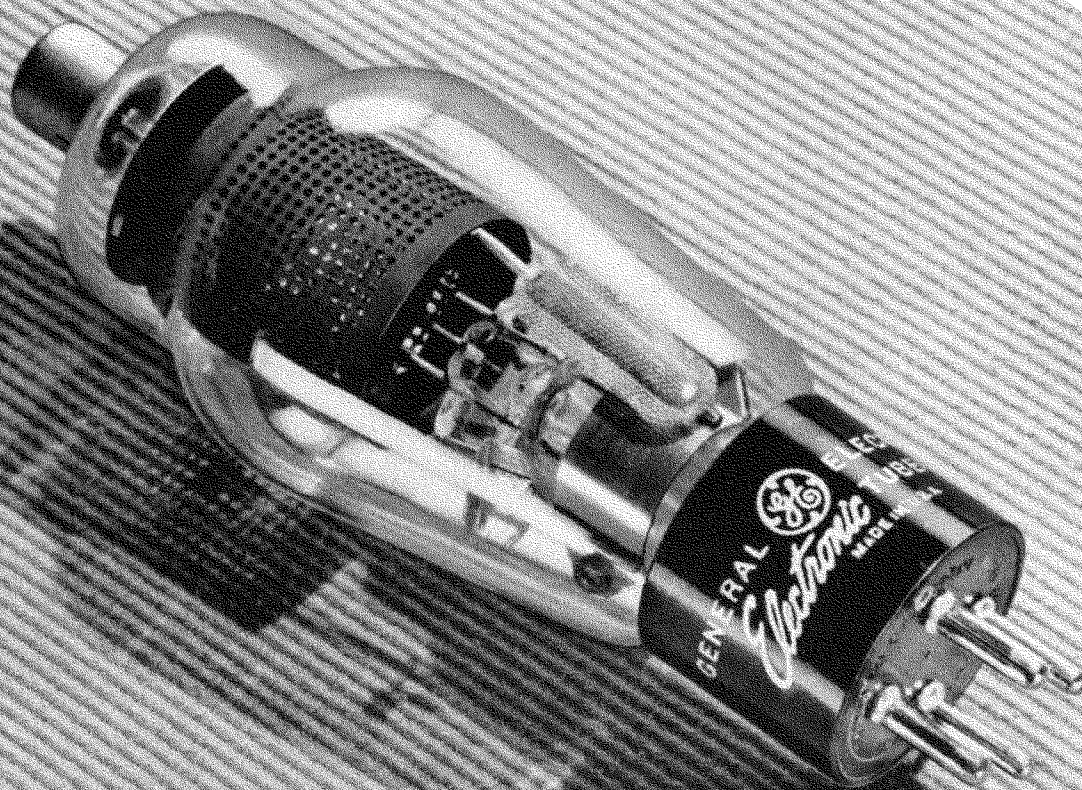




THYRATRON

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.....	2.5 volts
Filament voltage.....	7.0 amperes
Filament current, approx.....	15 seconds
Filament heating time, typical.....	16 volts
Peak voltage drop, typical.....	
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

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, 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

