



THYRATRON

DESCRIPTION

The FG-98-A is a double-grid inert-gas-filled thyatron designed for applications where the available grid power is very small and where it is desired

to actuate the grid from a high-impedance source. It is also used in applications where wide variations in ambient temperature will be encountered.

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Number of electrodes 4

Electrical

Cathode—Filamentary type

Filament voltage 2.5 volts

Filament current, approx 5.0 amperes

Filament heating time, typical 5 seconds

Peak voltage drop, typical 16 volts

Approximate control characteristics

Anode voltage	35	100	500	volts
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Shield-grid voltage	0	0	0	volts
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Control-grid voltage	0	-5.0	-11.0	volts
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Anode to control-grid capacitance, approx 0.5 micromicrofarad

Ionization time, approx 10 microseconds

Deionization time, approx 1000 microseconds

GENERAL ELECTRIC

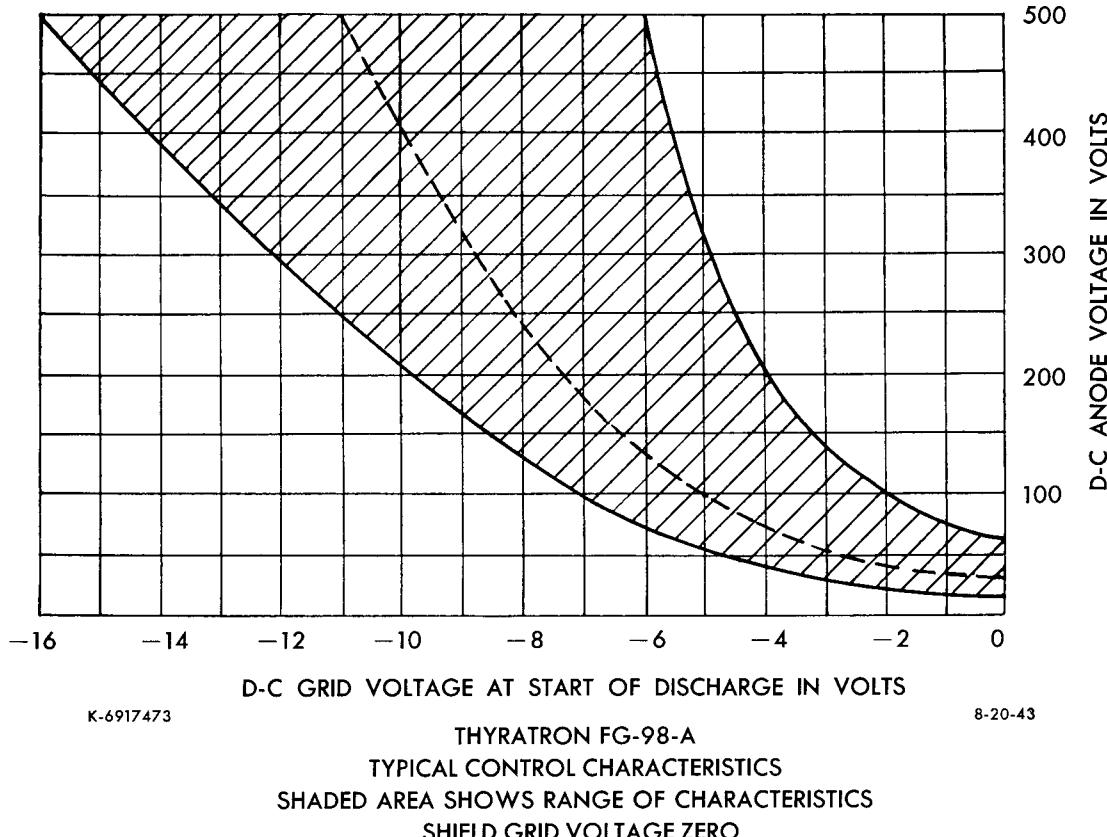
TECHNICAL INFORMATION (CONT'D)

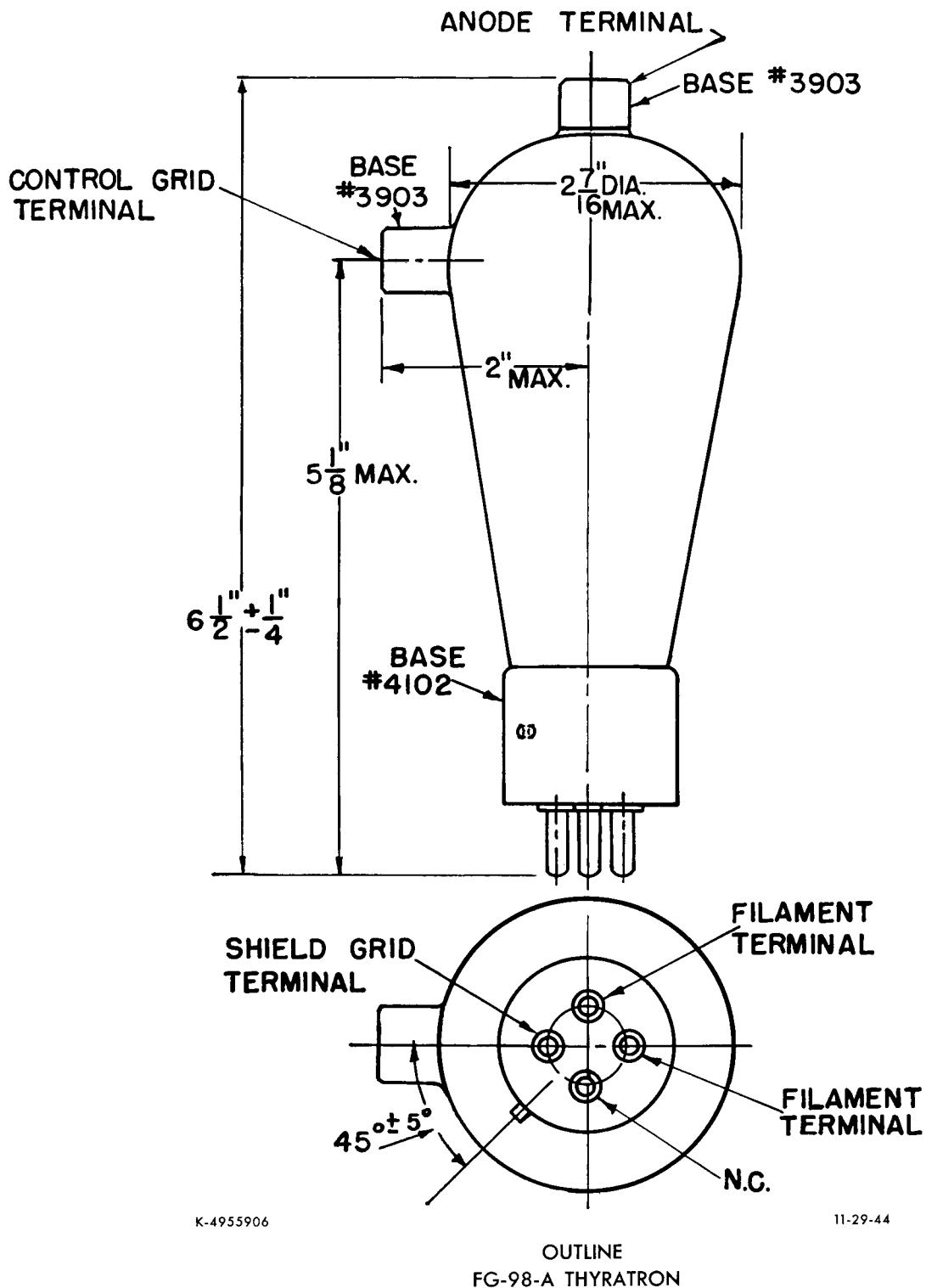
Mechanical

Net weight, approx.	5 ounces
Shipping weight, approx.	4 pounds
Operating position	Vertical, base down

MAXIMUM RATINGS

Maximum peak anode voltage	
Inverse	500 volts
Forward	500 volts
Maximum negative control-grid voltage	
Before conduction	70 volts
During conduction	10 volts
Maximum negative shield-grid voltage	
Before conduction	50 volts
During conduction	5 volts
Maximum anode current	
Instantaneous, 25 cycles and above	2.0 amperes
Instantaneous, below 25 cycles	1.0 ampere
Average	0.5 ampere
Surge, for design only	40 amperes
Duration of surge current	0.1 second
Maximum control-grid current	
Instantaneous	0.25 ampere
Average	0.05 ampere
Maximum shield-grid current	
Instantaneous	0.25 ampere
Average	0.05 ampere
Maximum time of averaging current	15 seconds
Ambient temperature limits	-20 to +50 centigrade





Electronics Department
GENERAL  **ELECTRIC**
Schenectady, N. Y.