



THYRATRON

DESCRIPTION

The FG-67 is a mercury-vapor thyatron with an intermediate control characteristic. This tube is particularly designed for use in inverter circuits where a short deionization time is required.

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Number of electrodes.....3

Electrical

Cathode—Indirectly heated type

Voltage.....5.0 volts

Current, approx.....4.5 amperes

Heating time, typical.....5 minutes

Peak voltage drop, typical.....16 volts

Approximate control characteristics

Anode voltage..... 100 1000 volts

Grid voltage..... +3.0 -0.5 volts

Anode to grid capacitance, approx.....6.5 micromicrofarads

Ionization time, approx.....20 microseconds

Deionization time, approx.....100 microseconds



GENERAL  ELECTRIC

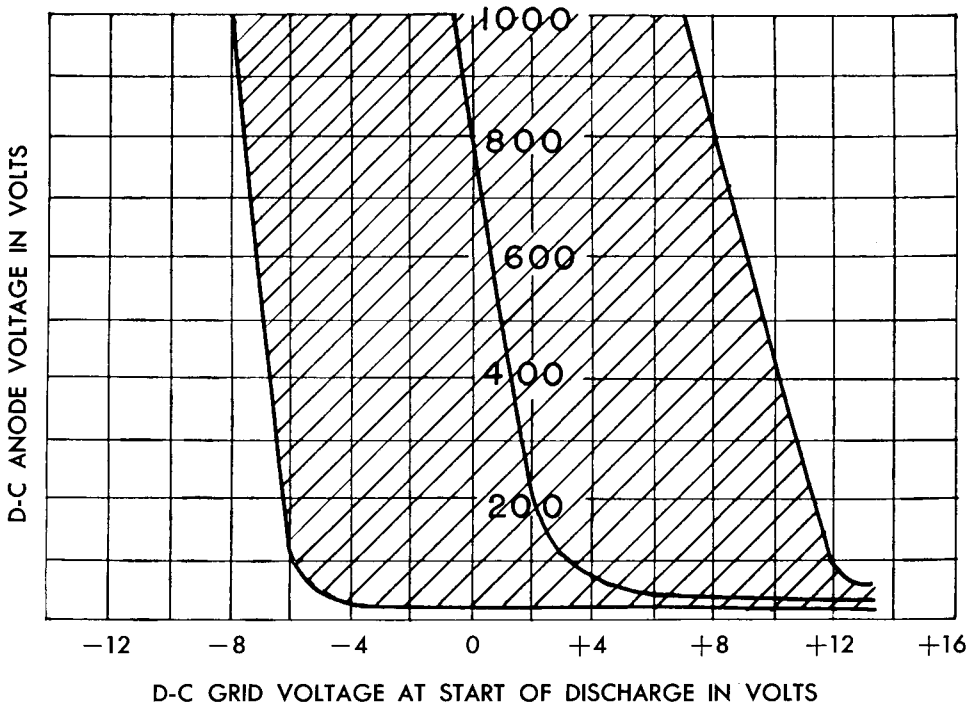
TECHNICAL INFORMATION (CONT'D)

Mechanical

Net weight, approx.....	4 ounces
Shipping weight, approx.....	3 pounds
Mounting position.....	vertical, base down

MAXIMUM RATINGS

Maximum peak anode voltage	
Inverse.....	1000 volts
Forward.....	1000 volts
Maximum negative grid voltage	
Before conduction.....	500 volts
During conduction.....	5 volts
Maximum anode current	
Instantaneous, 25 cycles and above.....	15 amperes
Instantaneous, below 25 cycles.....	5.0 amperes
Average.....	2.5 amperes
Surge, for design only.....	200 amperes
Duration of surge current.....	0.1 second
Maximum grid current	
Instantaneous.....	1.0 ampere
Average.....	0.25 ampere
Maximum time of averaging current.....	15 seconds
Temperature limits, condensed mercury.....	+40 to +80 centigrade
Recommended temperature, condensed mercury.....	+40 centigrade



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THYRATRON FG-67
TYPICAL CONTROL CHARACTERISTICS
SHADED AREA SHOWS RANGE OF CHARACTERISTICS
CONDENSED HG TEMPERATURE 40 C

