

# ELECTRONS, INCORPORATED

127 SUSSEX AVENUE

RECTIFIER TUBES

NEWARK 4, N. J.

TYPE 5684 (C37/A)

THYRATRON

## GENERAL CHARACTERISTICS

Inert Gas Filled Grid Controlled Triode designed for precise motor speed control, ignitron firing, and welding control.

## ELECTRICAL

Filament-----	Coated
Voltage-----	2.5 volts
Current-----	9+2 amps.
Heating Time-----	30 secs.
Average Tube Voltage Drop-----	10 volts
Grid Characteristics	
Maximum de-ionization time-----approx.	1 millisecond
Critical Grid Voltage at 1000 P. F. V. -----	-6.0+1.8 volts
Critical Grid Current-----	Less than 10 microamps.
Critical Anode Voltage @ +4 grid volts-----	75 volts max.
Grid to Anode capacitance-----	Approx. 2 u u f
Grid to Filament capacitance-----	Approx. 14 u u f
Maximum Negative Grid Voltage-----	100 volts

## MECHANICAL

Type of Cooling-----	Convection
Temperature Limits-----	-55 to +70 °C
Mounting Position-----	Any
Basing Designation-----	4CF
Base-----	Metal A4-10
Cap-----	Cl-5 medium
Maximum Overall Dimensions	
Length-----	6.25 in.
Diameter-----	1.57 in.
Weight-----	6 oz.

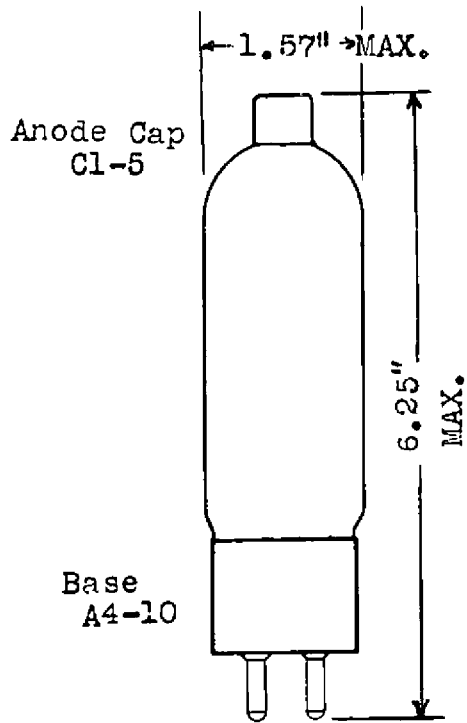
## MAXIMUM RATING

Peak Inverse Voltage-----	1250 volts
Peak Forward Voltage-----	1000 volts
Peak Anode Current-----	30.0 amps.
Overload Anode Current less than 3 sec.-----	3.7 amps.
Average Anode Current-----	2.5 amps.
AC Short-Circuit Current (0.1 sec.)-----	300 amps.

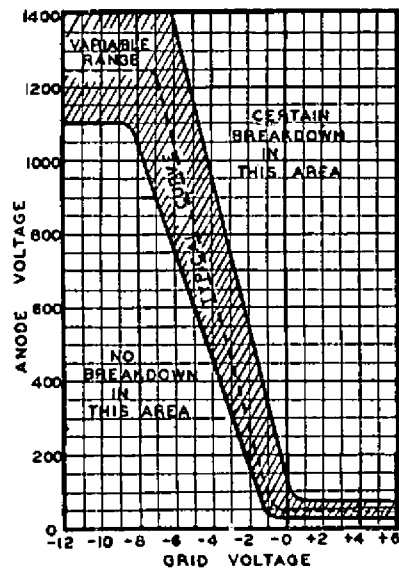
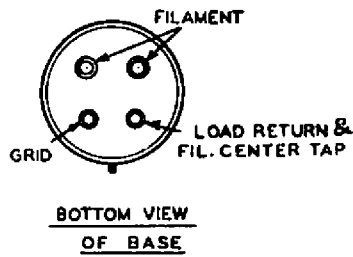
All values are for returns to the filament center tap.

Sponsor: ELECTRONS, INC. Newark, New Jersey

Date: Nov. 7, 1947



OUTLINE  
THYRATRON 5684



CONTROL CHARACTERISTICS

ELECTRONS, INC.  
127 Sussex Ave.  
Newark 4, N. J.