

ELECTRONS, INCORPORATED

127 SUSSEX AVENUE

RECTIFIER TUBES

NEWARK 4, N. J.

TYPE 5685 (C6J/A)

THYRATRON

GENERAL CHARACTERISTICS

A temperature free inert gas filled grid controlled triode designed for precise control.

ELECTRICAL

Filament-----	Coated
Voltage-----	2.5 volts
Current-----	21+2 amps.
Heating Time-----	Approx. 60 seconds
Average Tube Voltage Drop-----	9 volts
Grid Characteristics	
Maximum De-ionization Time-----	Approx. 1 millisecond
Critical Grid Voltage at 1000 peak fwd. volts	-4.6+1.6
Critical Grid Current-----	less than 10 microamps.
Critical Anode Voltage @ +4 grid volts-----	75 volts max.
Maximum Negative Grid Voltage-----	100 volts
Grid to anode capacitance-----	approx. 4 u u f
Grid to Filament Capacitance-----	approx. 21 u u f

MECHANICAL

Type of Cooling-----	convection
Temperature Limits-----	-55 to +70°C
Mounting Position-----	Vertical
Basing Designation-----	4AV
Base-----	Per Outline
Cap-----	Per outline
Weight-----	7 Oz.
Maximum Overall Dimensions	
Length-----	9.5 in.
Diameter-----	2.1 in.

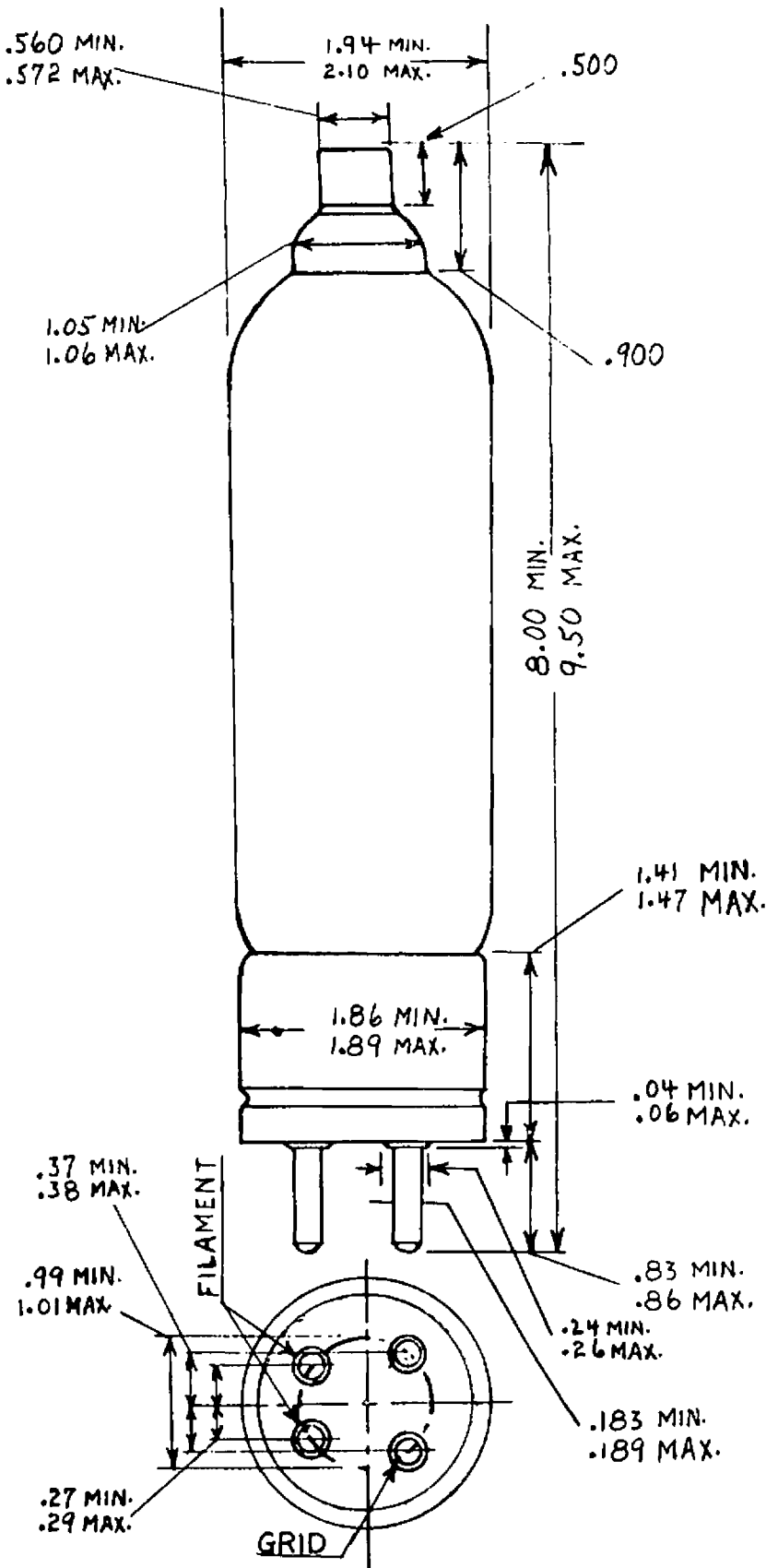
MAXIMUM RATINGS

Peak Inverse Voltage-----	1250 volts
Peak Forward Voltage-----	1000 volts
Peak Anode Current-----	77 amps.
Overload Average Anode Current Less Than 3 sec.---	12.8 amps.
Average Continuous Anode Current-----	6.4 amps.
AC Short-Circuit Current (0.1 sec.)-----	770 amps.

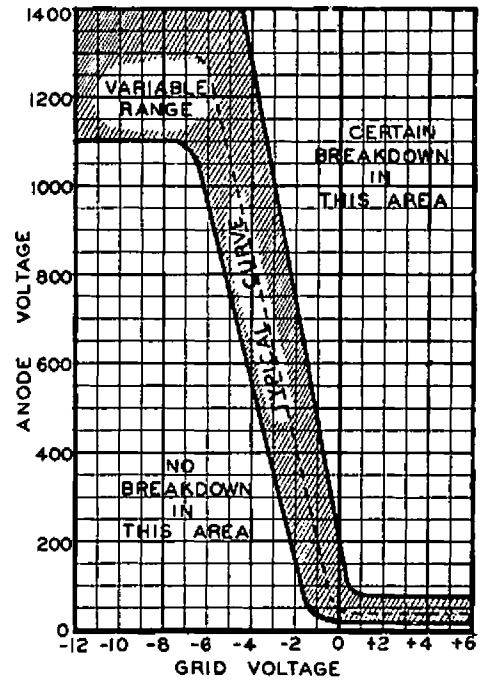
All values are for returns to the filament center tap.

Sponsor: ELECTRONS, INC. Newark, New Jersey

Date: Nov. 7, 1947



OUTLINE
Thyatron 5685



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