

# engineering TUBE DATA

F-7975 \*  
POWER  
DIODE



*Components Division*

DESCRIPTION

The F-7975 is a diode designed for rectifier service or in special applications in shunting or charging circuits. The construction is exceptionally rugged with a thoriated tungsten filamentary cathode of bifilar helical construction. The anode is forced air-cooled and is capable of dissipating 3.5 kw.

ELECTRICAL

Filament Voltage 15 volts  
 Filament Current 36 amperes  
 Filament Starting Current

Full rated filament voltage may be safely applied to the cold filament

Maximum Ratings

	<u>Shunt</u>	<u>Charging</u>	<u>Rectifier</u>
Max. Peak Inverse Voltage	55	55	46 kilovolts
Max. Peak Plate Current	100	100	21 amperes
Max. Average Plate Current	-	-	5 amperes
Max. Peak Inverse Voltage x Average Plate Current			165,000
Inter-Electrode Capacitance			11.5 μf

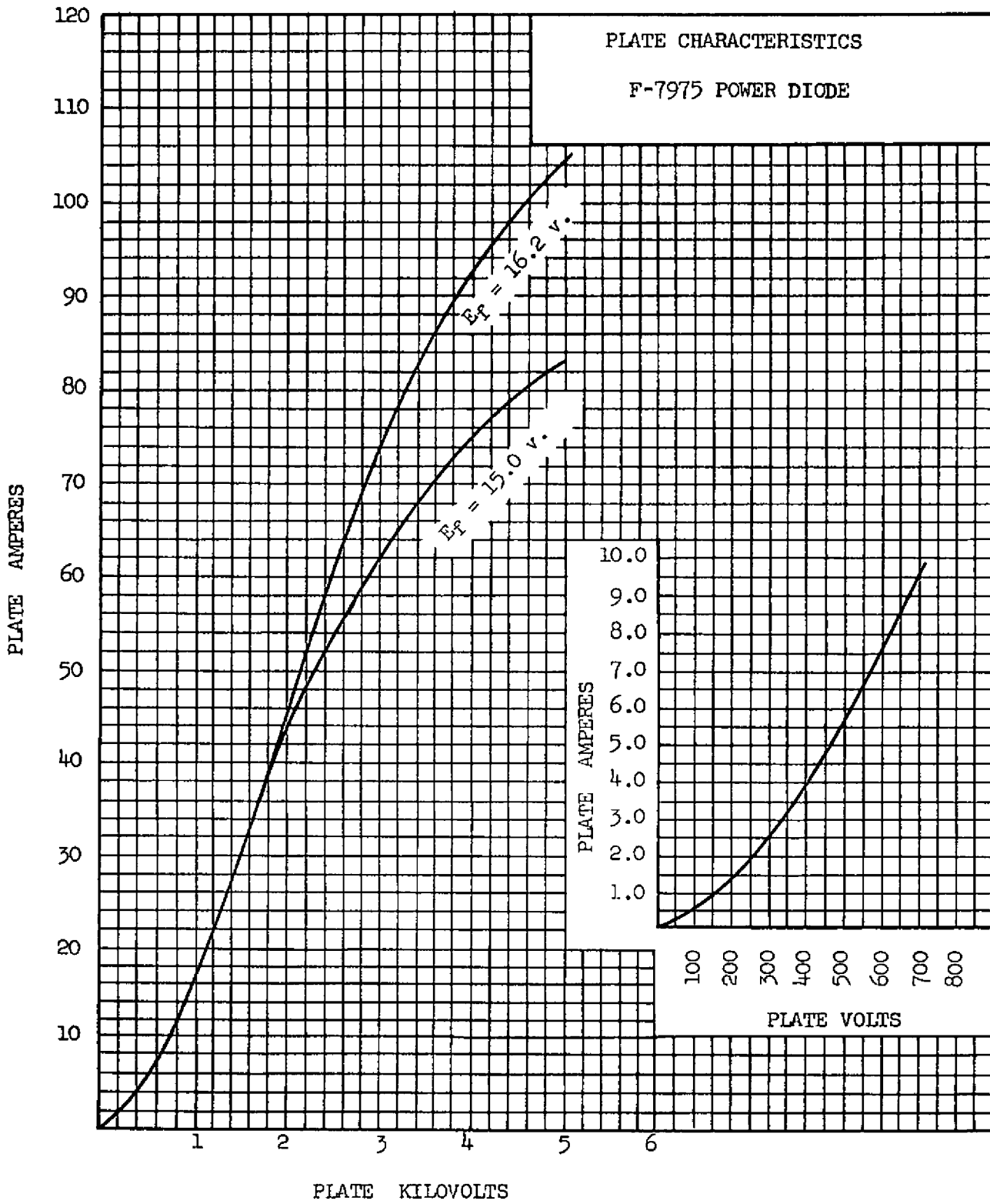
MECHANICAL

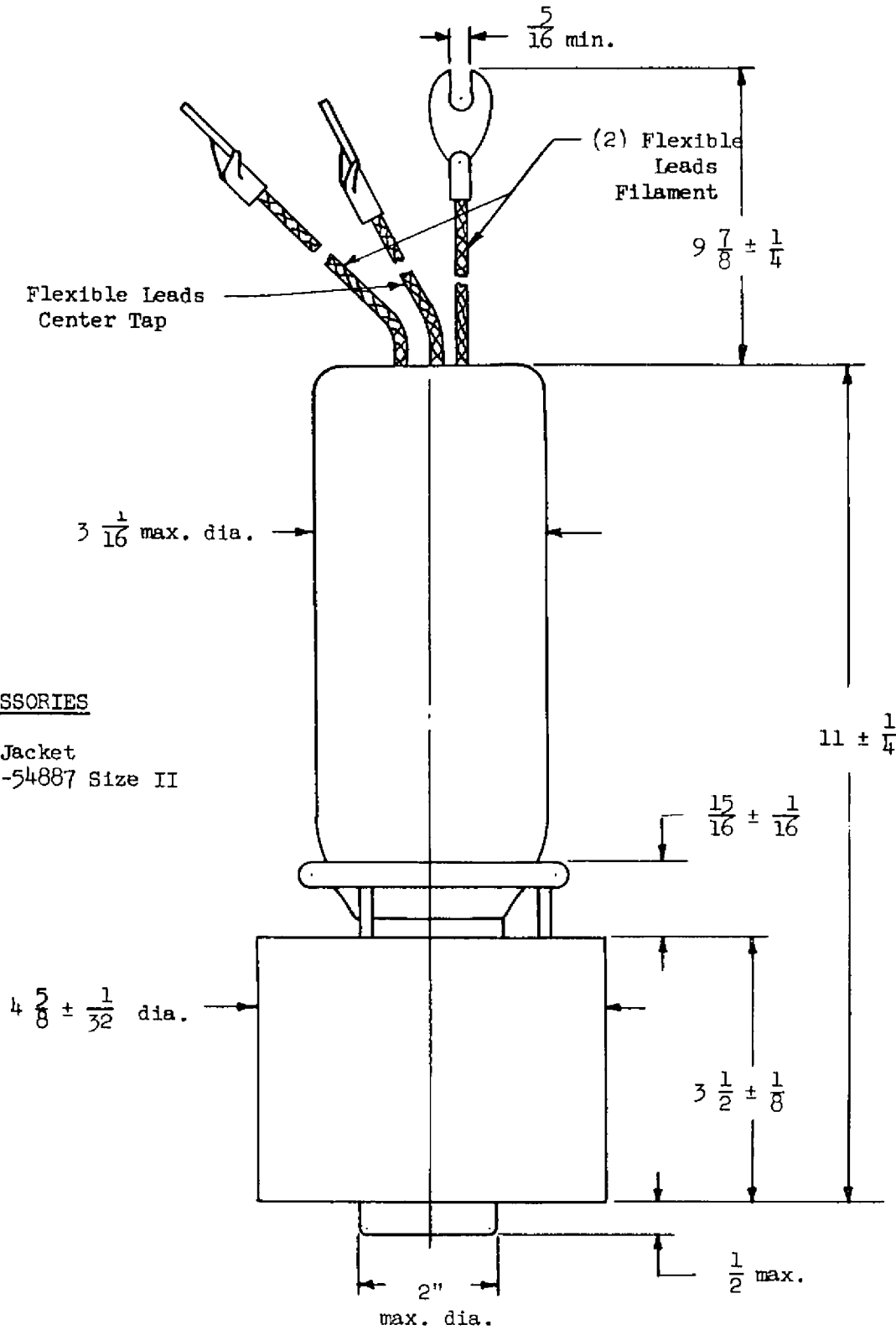
Mounting Position Vertical, Anode up or down  
 Max. Glass & Seal Temperature 180 °C  
 Type of Cooling Forced air  
 Anode Air Flow Required  
 Plate Dissipation 3.5 2.8 2.4 kilowatts  
 Minimum Air Flow 190 125 75 cfm  
 Pressure--inches of water 1.6 .78 .35  
 Max. Incoming Air Temperature 45 °C  
 Net Weight, approx. 7 lbs.

Additional information for specific applications can be obtained from the:

ITT Components Division  
 Electron Tube Applications Section  
 P.O. Box 412  
 Clifton, New Jersey

\* Formerly the D-1042.





ACCESSORIES

Air Jacket  
 RT-54887 Size II

OUTLINE  
 F-7975 POWER DIODE