



ELECTRON TUBE DEPARTMENT ■ COMPONENTS DIVISION
INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION, CLIFTON, NEW JERSEY

F-7975 *
POWER
DIODE

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

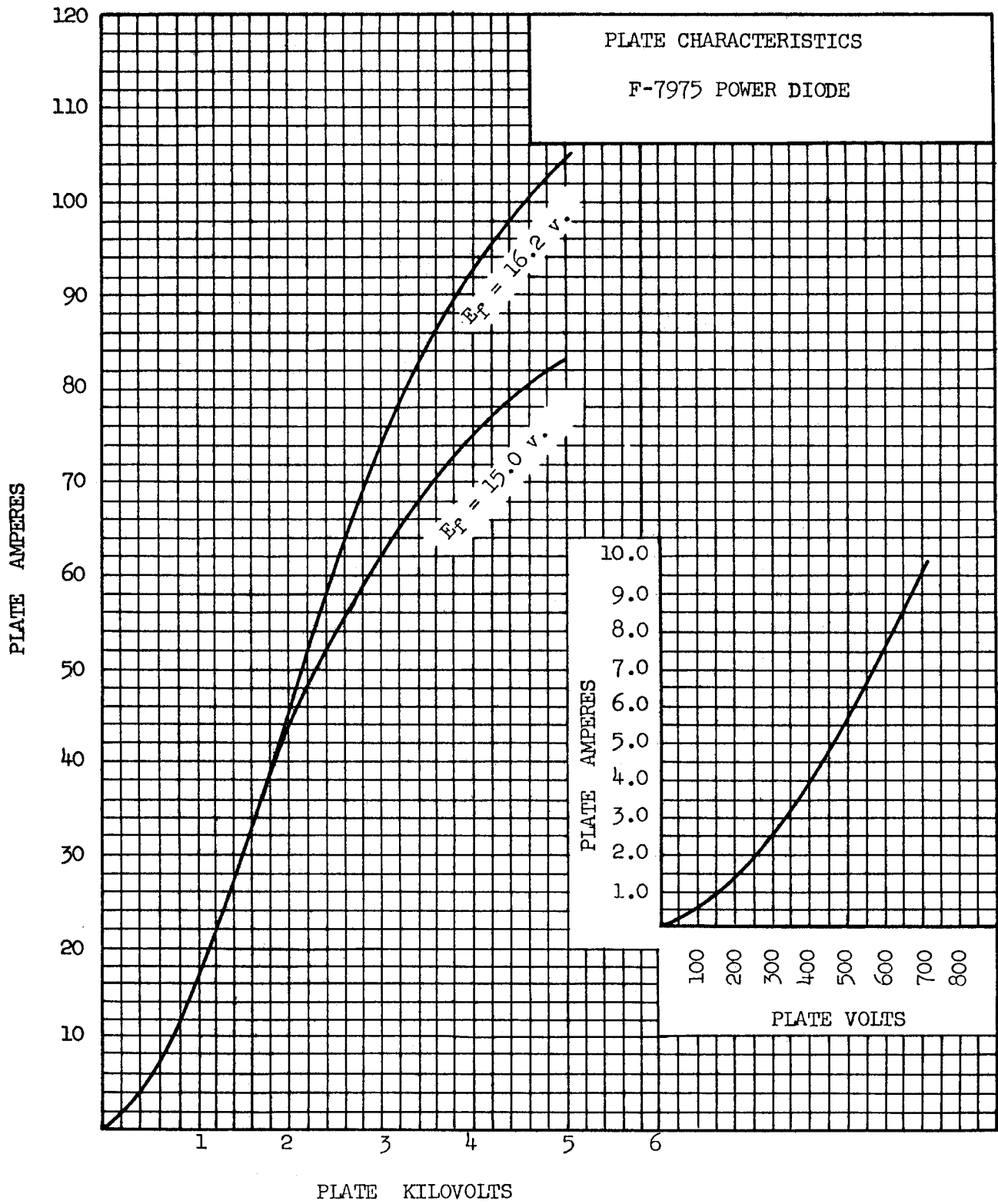
Filament Voltage			15 volts
Filament Current			36 amperes
Filament Starting Current			
Full rated filament voltage may be safely applied to the cold filament			
<u>Maximum Ratings</u>	<u>Shunt</u>	<u>Charging</u>	<u>Rectifier</u>
Max. Peak Inverse Voltage	55	55	46 kilovolts
Max. Peak Plate Current	100	100	21 amperes
Max. Average Plate Current	-	-	5 amperes
Max. Peak Inverse Voltage x Average Plate Current			165,000
Inter-Electrode Capacitance			11.5 μ f

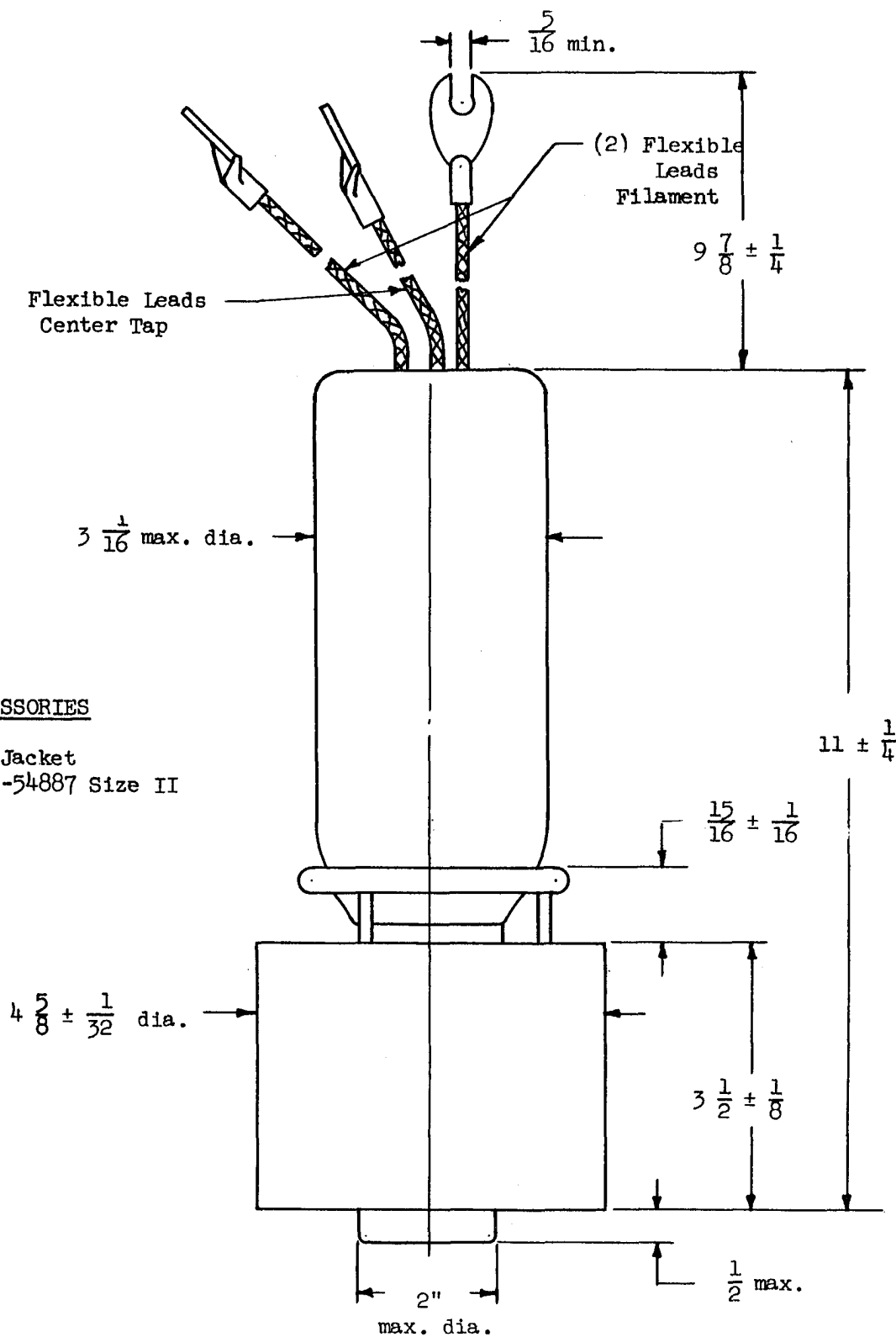
MECHANICAL

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





ACCESSORIES

Air Jacket
RT-54887 Size II

OUTLINE
F-7975 POWER DIODE

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