

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 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

* Formerly the D-1042.

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