ITT ELECTRON TECHNOLOGY
P.O. Box 100
Easton, Pennsylvania 18044-0100
Telephone 215 252-7331

F-7779
HIGH VACUUM POWER DIODE

DESCRIPTION

The F-7779 is a diode designed for rectifier service or in special applications in shunting or charging circuits. The exceptionally rugged construction, free of internal insulators, spring tensioning devices, and fragile elements, makes this type adaptable to a wide range of uses. The anode is forced air-cooled and is capable of dissipating 3.0 kilowatts. The cathode is a thoriated tungsten bifilar helix.

ELECTRICAL

Filament Voltage					13	Volts
Filament Current					36	Amperes
Filament Starting Current Full rated filament voltage may be safely applied to the cold filament						
Maximum Ratings	Shunt		Charging		Rectifier	
Max. Peak Inverse Voltage	30	30	30	30	25	Kilovolts
Max. Peak Plate Current*	50	75	50	75	20	Amperes
Max. Average Plate Current	.7	.2	.7	.2	6	Amperes
Capacitance - Interelectrode					12	µµf

MECHANICAL

Mounting Position			Vertical, Anode Up or Down		
Type of Cooling			Forced Air		
Anode Air Flow Required					
Plate Dissipation	3.0	2.4	1.8	1.0	Kilowatts
Air Flow	190	125	75	50	CFM
Pressure	1.21	.58	.26	.2	" of Water
Maximum Incoming Air Temperature				45	°C
Maximum Glass Temperature				180	°C
Net Weight (Approximate)				6-¼	Pounds

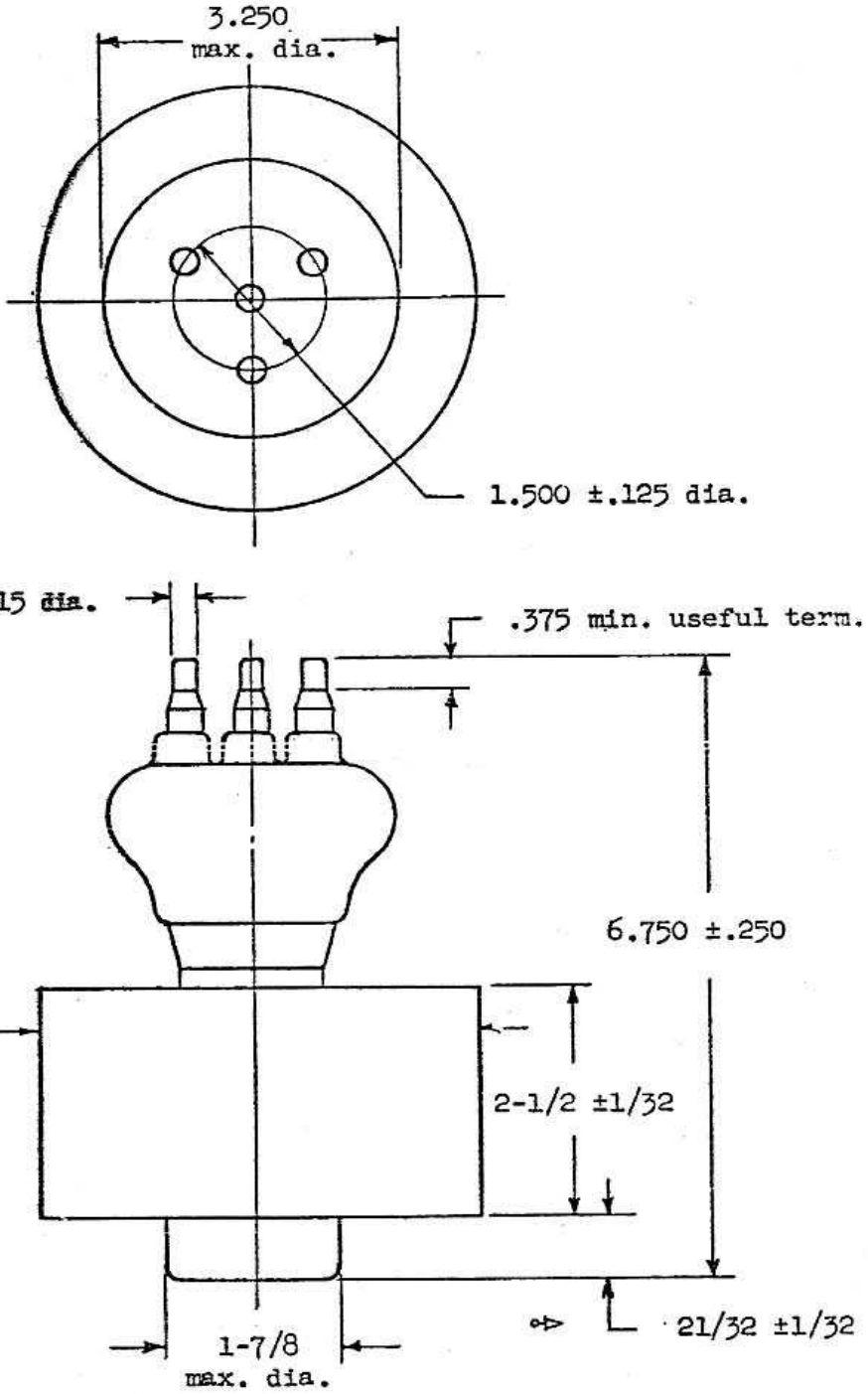
*Maximum peak plate current and maximum average plate current for shunt and charging conditions are rated under conditions of filament excitation voltage of 13.75 volts.

Additional information for specific applications may be obtained from:

ITT ELECTRON TECHNOLOGY DIVISION
Applications Department
P.O. Box 100
Easton, Pennsylvania 18044-0100

Terminal Color Code

1 Fil. Term. - Yellow
2 Fil. Term. - Yellow
3 F. Ct - Red



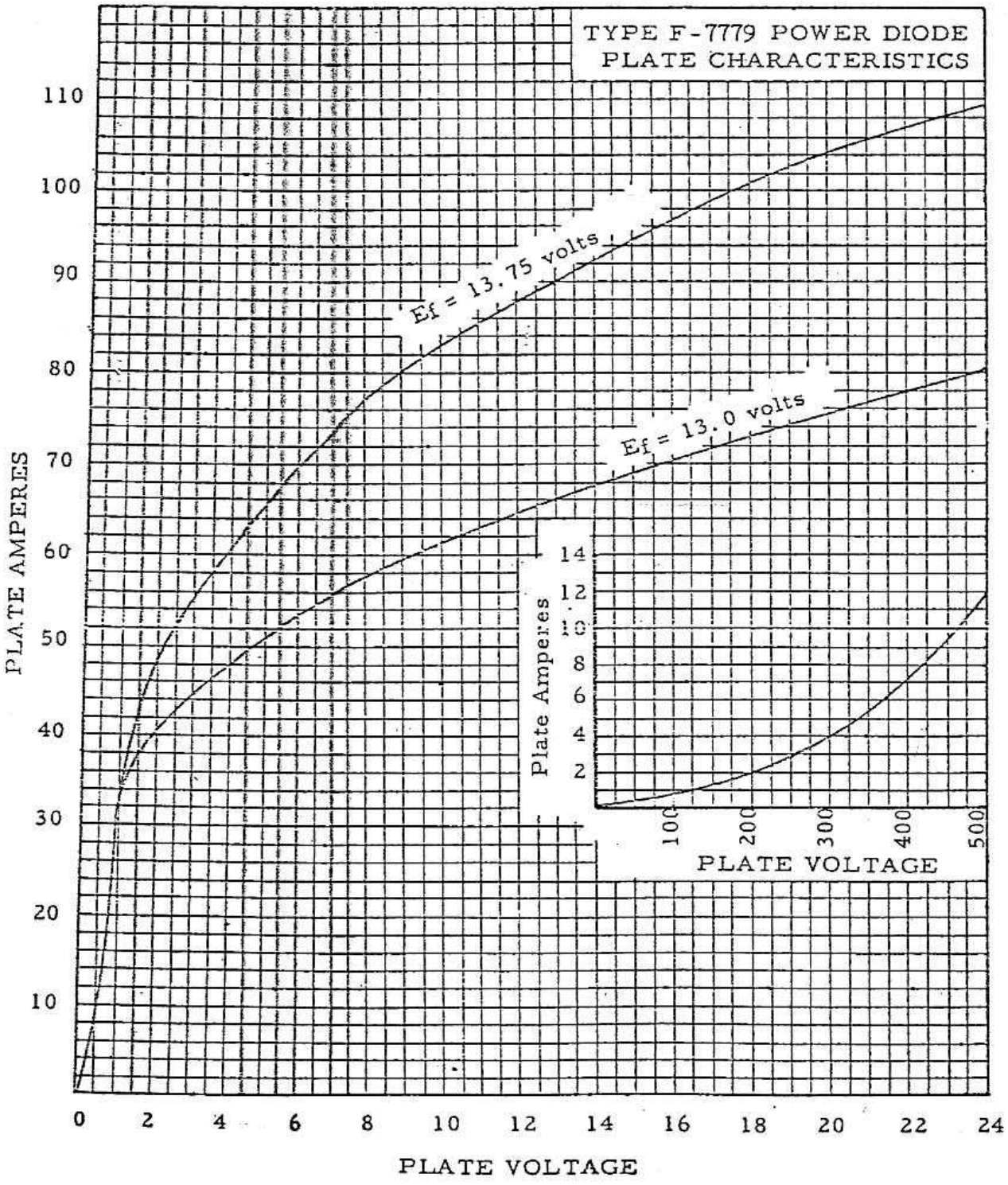
NOTE:
1/2" flexible copper lead 6" long available on each terminal upon request.

◈ ACCESSORIES:

Air Jacket - RT-54887, Size II

Terminal Conn. Assy. - RT-54410

◈ Indicates change from data sheet of 10/60



ELECTRON TECHNOLOGY DIVISION ITT
BOX 100 EASTON, PA. 18044-0100