

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

F-7100
POWER
DIODE

DESCRIPTION

The F-7100 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, make this type adaptable to a wide range of uses. The anode is forced air cooled and is capable of dissipating 3.5 kilowatts. The cathode is a thoriated tungsten bifilar helix.

ELECTRICAL

Filament Voltage	15 volts
Filament Current	36 amperes
Filament Starting Current	

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

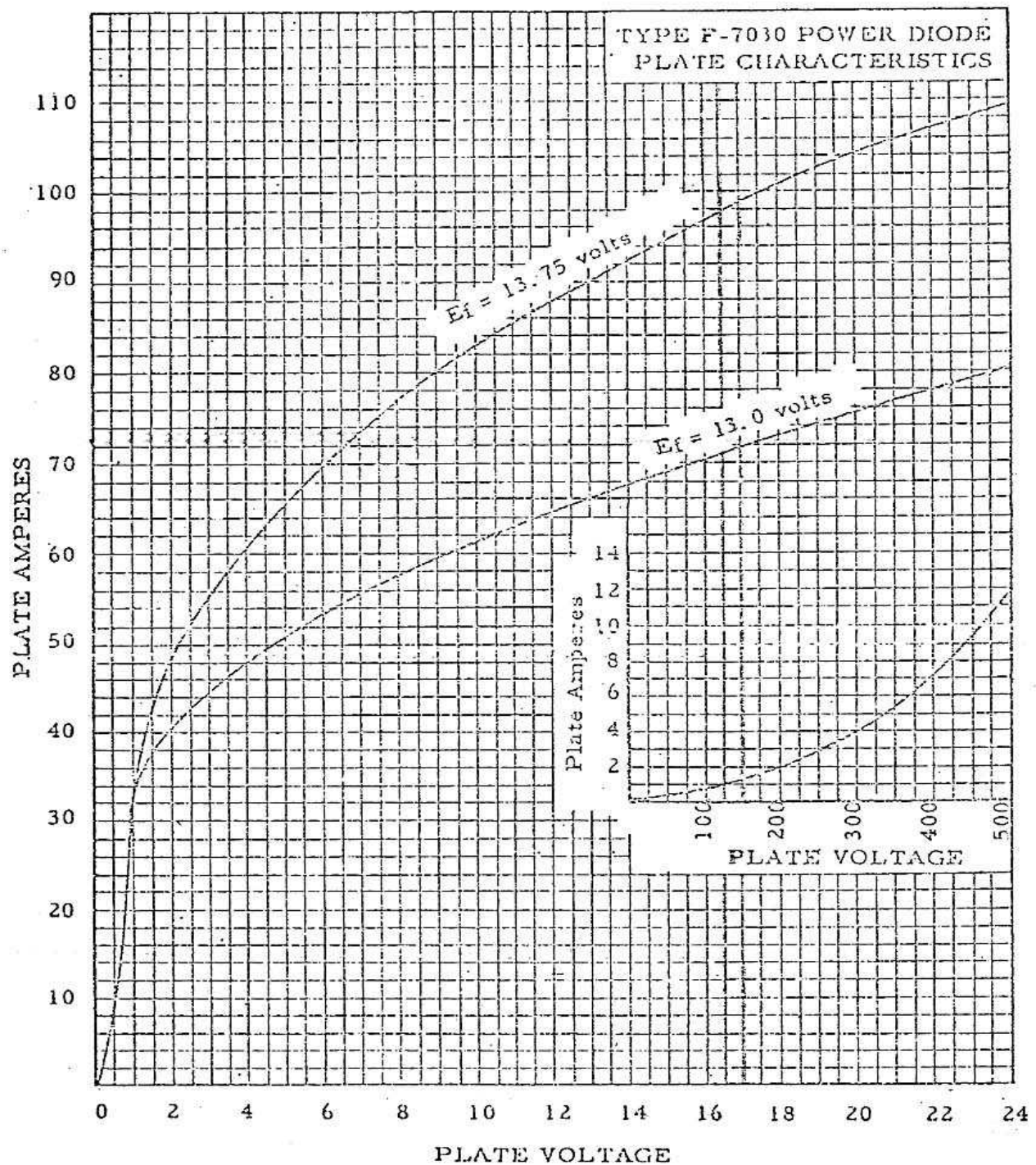
Maximum Ratings	Shunt	Charging	Rectifier
Max. Peak Inverse Voltage - kv	30	30	30
Max. Peak Plate Current - amps	100	7.5 rms	20
Max. Plate Current - amps	-	-	6 avg.

MECHANICAL

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

Additional information for specific applications can be obtained from:

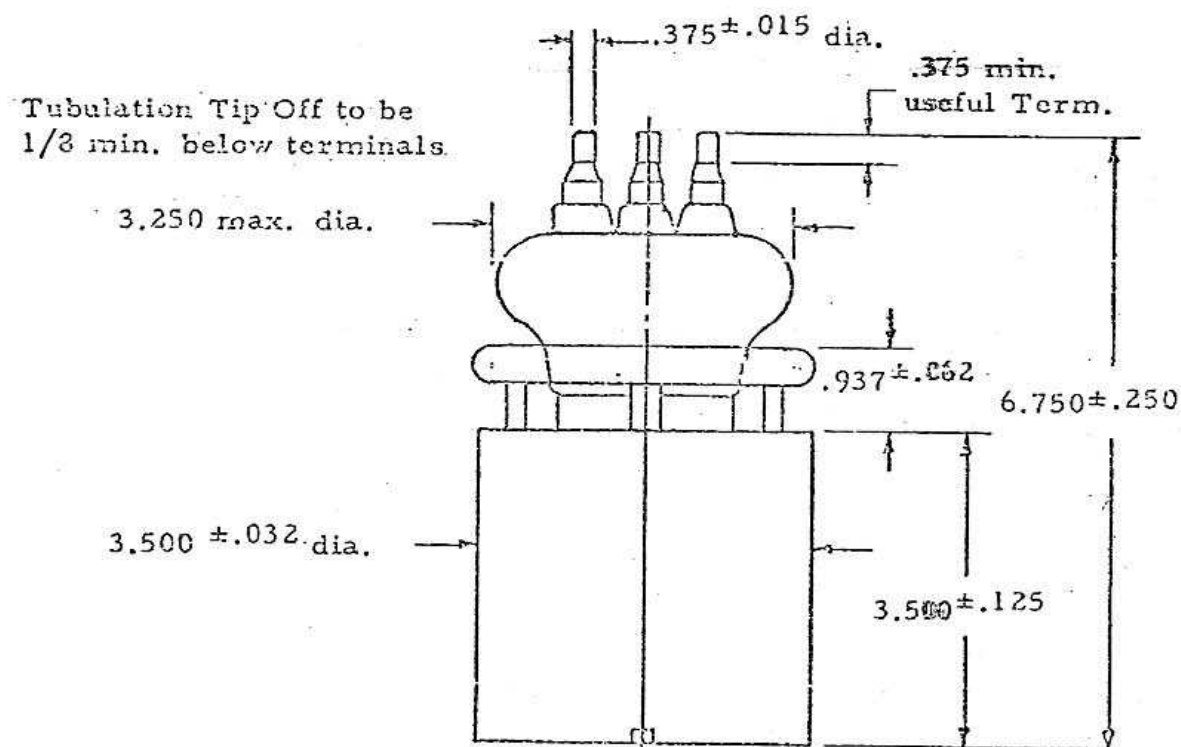
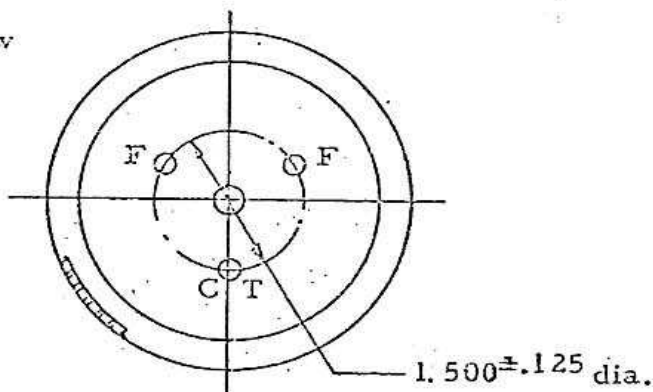
Electron Tube Applications Section
ITT Components Division
P.O. Box 412
Clifton, New Jersey



Color Code

Fil. Term. - Yellow
 Fil. C. Term. - Red

3.250 max. dia. (See Below)

ACCESSORIES

Air Jacket
 RT-54891

Key way to be centered within 5° on
 same line as fil. center tap.