

# HIGH VACUUM DIODE

## DESCRIPTION

The Central 6303/X-80 was designed for rectifier and clipper diode applications. It is a rugged, high vacuum diode with high emission capabilities, desirable where high inverse voltages and ambient temperatures preclude the use of gas filled or mercury vapor tubes.

## SPECIFICATIONS:

### PHYSICAL

Length (max.) . . . . . 9<sup>3</sup>/<sub>4</sub> inches  
Diameter (max.) . . . . . 3<sup>5</sup>/<sub>8</sub> inches  
Cap . . . . . .566 inches dia.  
Base . . . . . A4-18 Super Jumbo 4 Pin Bayonet  
Mounting Position . . . . . Vertical, Base Down  
Weight . . . . . 10 Ounces  
Type of Cooling . . . . . Radiation (1)

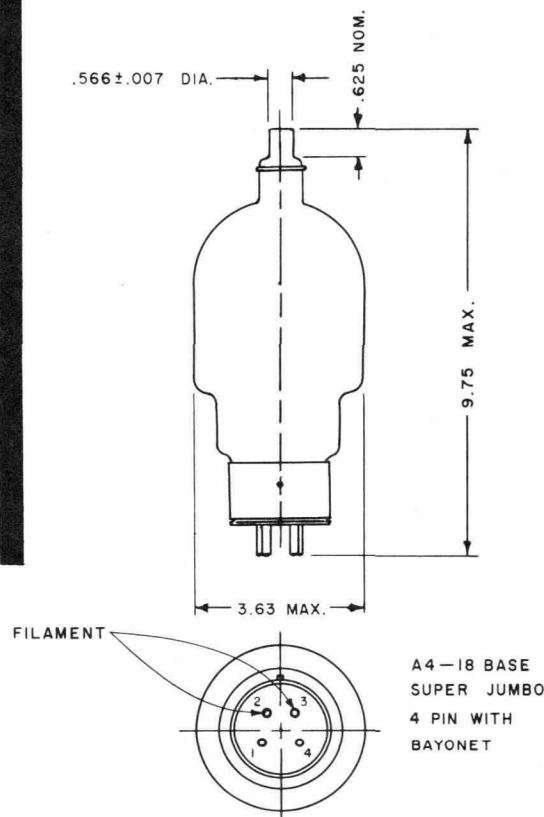
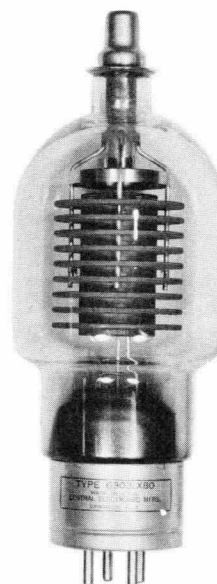
(1) Mount the tube so that forced air at the rate of 50 cfm is directed downward on the tube when operating at 60% of full rating. Maximum anode temperature 800°C. Anode dissipation 550 watts. Connect the base shell and unused pins externally to one filament terminal.

### ELECTRICAL (RECTIFIER)

Filament . . . . . Bonded Thoria Tungsten  
Filament Voltage . . . . . 11.5 Volts  
Filament Current . . . . . 15.25 Amperes  
Peak Inverse Voltage (max.) . . 40,000 Volts  
Peak Anode Current (max.) . . . 2.5 Amperes  
Average Plate Current  
(max.) . . . . . 0.700 Amperes

### ELECTRICAL (CLIPPER)

Filament . . . . . 12.2 Volts  
Filament Current . . . . . 15.5 Amperes  
Peak Inverse Voltage (max.) . . 33,000 Volts  
Peak Anode Current (max.) . . . 50 Amperes  
RMS Anode Current . . . . . 1.25 Amperes

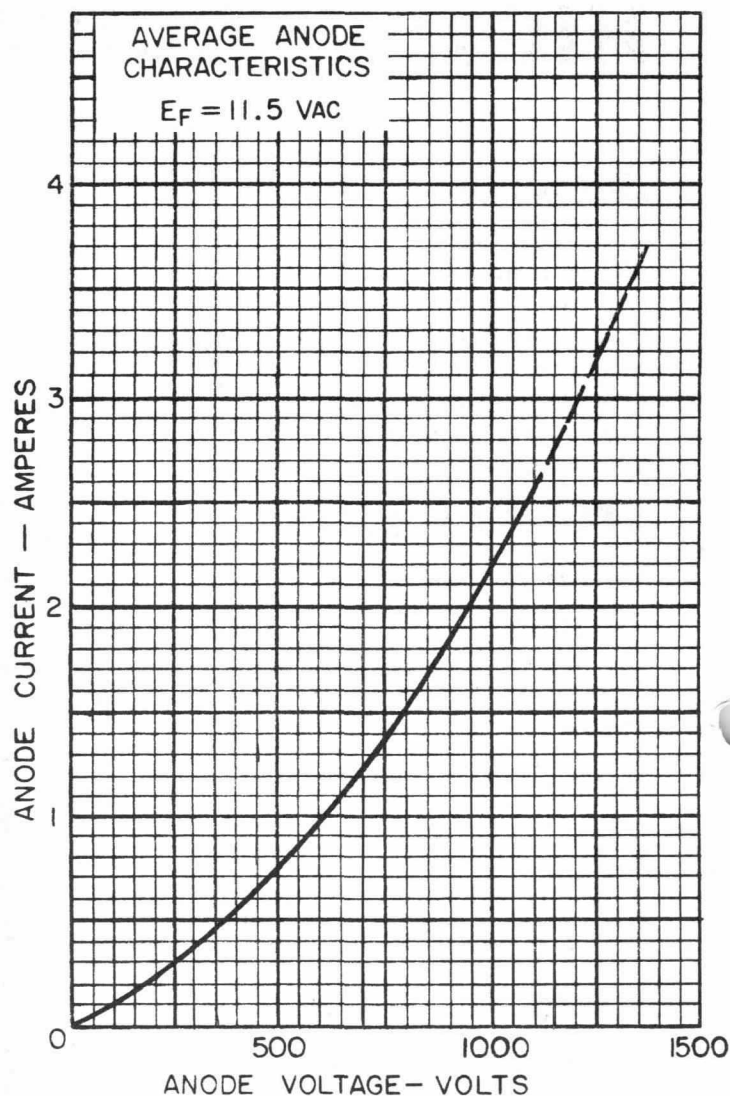
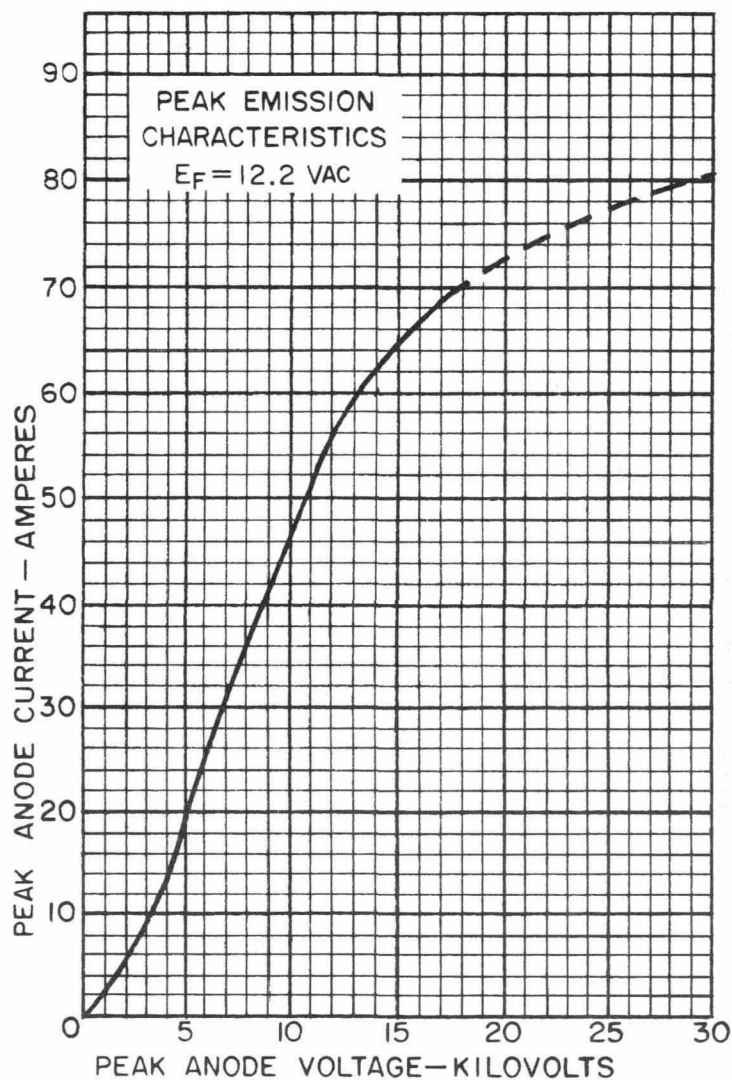


HIGH  
VACUUM  
DIODE  
TYPE  
6303/X-80

# Central ELECTRONIC

## MANUFACTURERS

DENVILLE, NEW JERSEY



**WARNING FOR POSSIBLE X-RAY GENERATION**  
See Safety Code for the Industrial Use of X-Rays  
published by the American Standards Association.



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