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\frac{1}{4} inches
Diameter (max.) .................... 3\frac{3}{8} inches
Cap .................................. 0.566 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
AVERAGE ANODE CHARACTERISTICS
$E_F = 11.5$ VAC

PEAK EMISSION CHARACTERISTICS
$E_F = 12.2$ VAC

WARNING FOR POSSIBLE X-RAY GENERATION