HIGH VOLTAGE
HIGH VACUUM DIODE

DESCRIPTION
The Central 7132/XD-2 is a water cooled hard tube diode specifically designed for rectifier, charging and shunt diode service up to 40Kv peak inverse voltage. The tube design features a special thoriated tungsten filament capable of high peak currents and long life. The external anode allows for high anode dissipation ratings and efficient water cooling through its specially designed integral jacket. The 7132/XD-2 can dissipate 5Kw continuously at a water flow of 3 gpm.

SPECIFICATIONS

PHYSICAL
Overall Length .................................. 9 3/16 inches
Overall Diameter ................................ 4 inches
Weight ........................................... 1 1/2 pounds (approx.)
Mounting Position ................................ Vertical
Type of Cooling .................................. Water
Water Flow ....................................... 3 gpm (minimum)
Max. Outlet Temperature ....................... 70°C
Max. Glass Seal Temperature ................ 180°C

ELECTRICAL (RECTIFIER)
Filament ......................................... Special Thoriated Tungsten
Filament Voltage ................................ 13 Volts A.C.
Filament Current ............................... 36 Amperes
Starting Filament Surge Current ............... 80 Amperes (max.)
Peak Inverse Voltage ........................... 40,000 Volts (max.)
Anode Current .................................. 3 Amperes
Peak Anode Current ............................ 15 Amperes

ELECTRICAL (CLIPPER, SHUNT or CHARGING DIODE)
Filament Voltage ............................... 14.5 Volts A.C. (clipper)
................................................. 13 Volts A.C. (charging)
Filament Current ............................... 40 Amperes (clipper)
................................................. 36 Amperes (charging)
Starting Filament Surge Current ............... 80 Amperes (max.)
Peak Inverse Voltage ........................... 40,000 Volts (max.)
Anode Current (RMS) .......................... 6 Amperes
Peak Anode Current ........................... 150 Amperes (clipper)
PULSE CHARACTERISTICS

AVERAGE ANODE CHARACTERISTICS

FILAMENT CHARACTERISTICS

DIVISION OF NUCLEAR CORPORATION OF AMERICA