

HIGH VOLTAGE HIGH VACUUM DIODE

DESCRIPTION

The Central 7131/XD-2 is a forced-air 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 air cooling when used with the recommended Central air socket. This air socket permits maximum air flow at the anode. The 7131/XD-2 can dissipate 3Kw continuously at an air flow of 190 cfm.

SPECIFICATIONS

PHYSICAL

Overall Length.....6½ inches
Overall Diameter.....4⅞ inches
Weight.....5¼ pounds (approx.)
Mounting Position.....Vertical
Mounting Socket.....CAS-A or CAS-B Series
Type of Cooling.....Forced air

Air Flow

Velocity cfm	Anode Dissipa- tion Rating	Pressure Drop (in. of water)
50	1.0Kw	0.20
75	1.8Kw	0.26
125	2.4Kw	0.58
190	3.0Kw	1.21

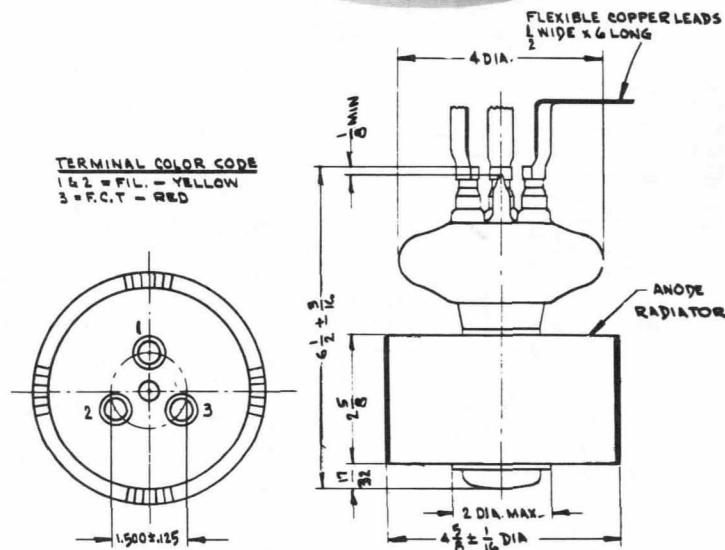
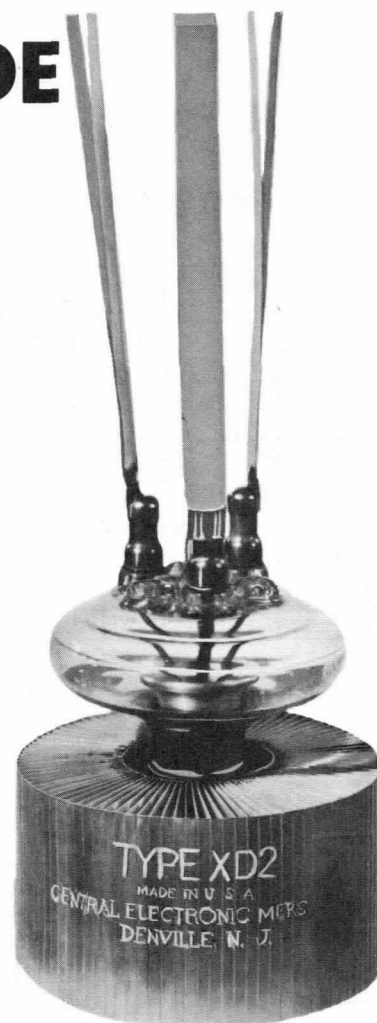
Max. Incoming Air Temperature..... 45°C
Max. Glass Seal Temperature..... 180°C

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)

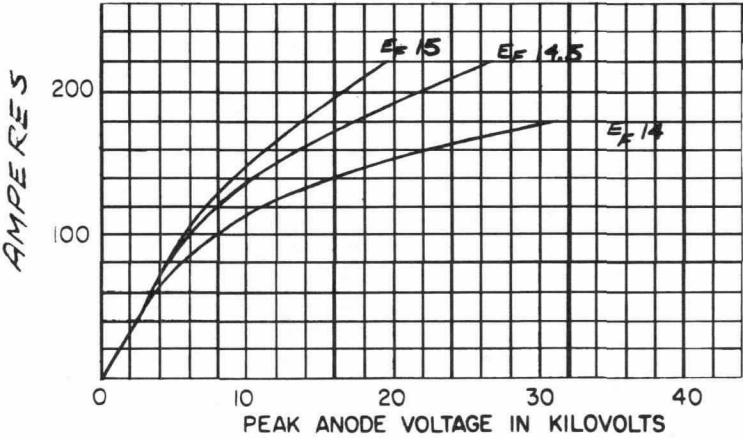
Filament Voltage.....14.5 Volts A.C. (clipper)
13 Volts A.C. (charging)
Filament Current.....40 Amperes (clipper)
36 Amperes (charging)
Starting Filament Surge Current. 80 Amperes (max.)
Peak Inverse Voltage.....40,000 Volts (max.)
Anode Current (RMS).....6 Amperes
Peak Anode Current.....150 Amperes (clipper)



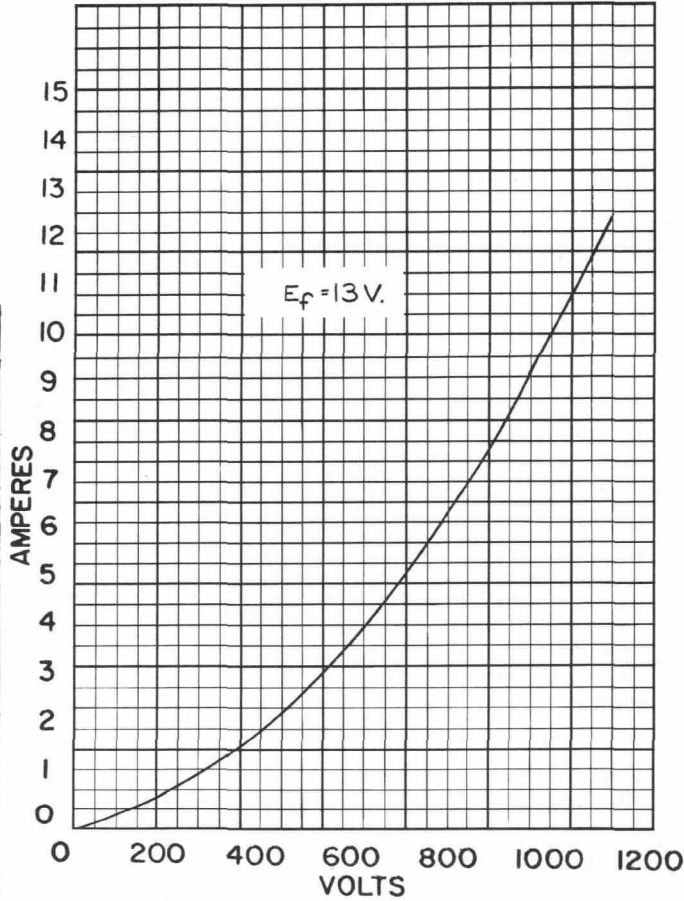
HIGH VOLTAGE
HIGH CURRENT
DIODE
TYPE
7131/XD-2
Anode Dissipation
3 Kw

Central **ELECTRONIC**
MANUFACTURERS
DENVER, NEW JERSEY

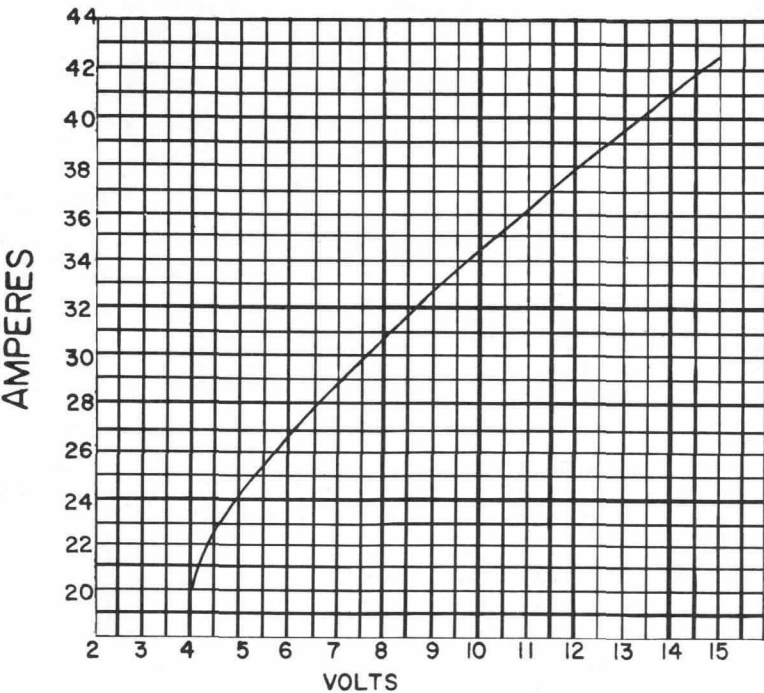
PULSE CHARACTERISTICS



AVERAGE ANODE CHARACTERISTICS



FILAMENT CHARACTERISTICS



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

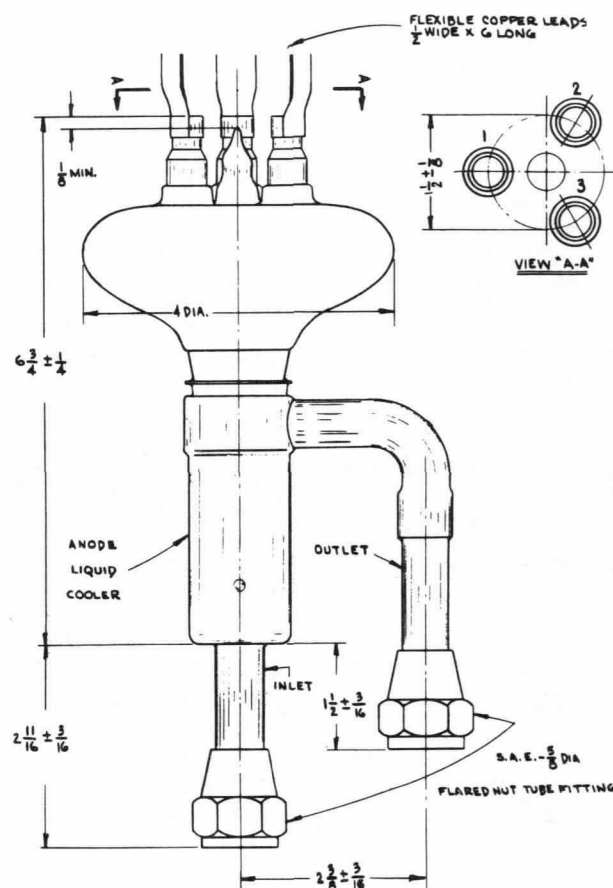
Overall Length.....9 $\frac{7}{16}$ inches
Overall Diameter.....4 inches
Weight.....1 $\frac{1}{2}$ pounds (approx.)
Mounting Position.....Vertical
Type of Cooling.....Water
Water Flow.....3 gpm (minimum)
Max. Outlet Temperature.....70°C
Max. Glass Seal Temperature.....180°C

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)



HIGH VOLTAGE
HIGH CURRENT
DIODE

TYPE

7132/XD-2

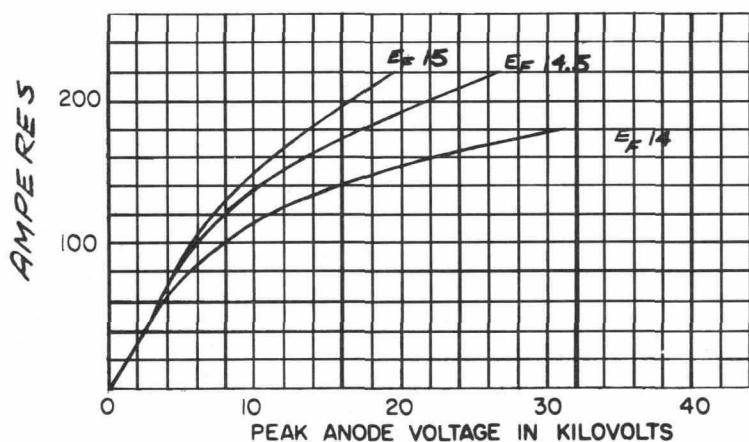
Anode Dissipation

5 Kw

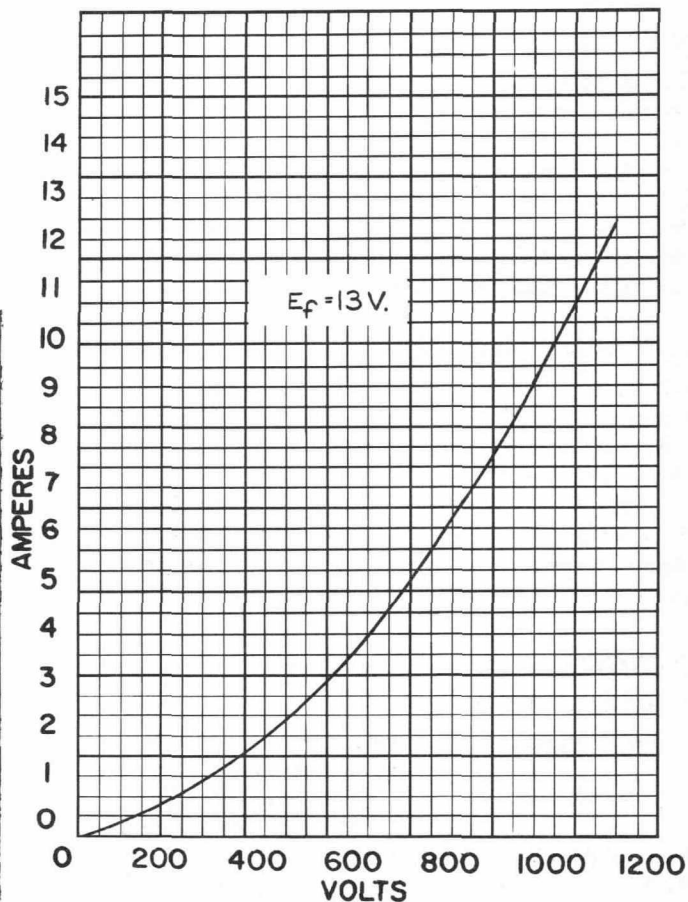
Central ELECTRONIC MANUFACTURERS

DENVILLE, NEW JERSEY

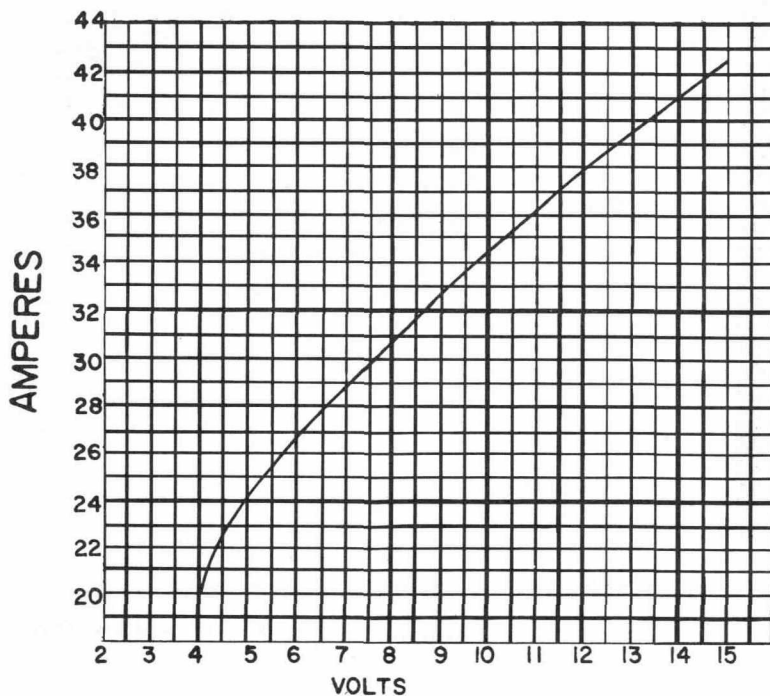
PULSE CHARACTERISTICS



AVERAGE ANODE CHARACTERISTICS



FILAMENT CHARACTERISTICS



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