



ELECTRONIC TUBE REFERENCE

XD18R

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated high-current high-vacuum diode for rectifier, clipper, and charging service. Rated for approximately 40 kV peak inverse voltage, 15 A DC output, and 50 A peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 120 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	13000 W
PEAK INVERSE VOLTAGE	40000 V
NOMINAL OUTPUT CURRENT	15 A
PEAK FORWARD CURRENT	50 A

The XD18R is a high-current high-vacuum diode for rectifier, clipper and charging service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Central Electronic Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 CENTRAL ELECTRONIC TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	40000 V	—
Peak anode current	50 A	—
Average anode current	15 A	—
Anode dissipation	13000 W	—
Clipper filament voltage	11 V	—
Clipper filament current	125 A	—
Clipper peak anode current	300 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	10 V	—
Filament current	120 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Forced air	—

TUBE TINKER

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and their source documents.

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