

ELECTRONIC TUBE REFERENCE

XD49R

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated high-vacuum power diode for high-voltage rectifier and pulse service. Rated for approximately 50 kV peak inverse voltage, 7 A DC output, and 15 A peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	15 V / 36 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	3000 W
PEAK INVERSE VOLTAGE	50000 V
NOMINAL OUTPUT CURRENT	7 A
PEAK FORWARD CURRENT	15 A
Published ratings and characteristics promoted where directly established; additional values retained as parameters.	

XD49R is a high-vacuum diode for high-voltage rectifier, charging, clipper, and/or modulator service as specified in the datasheet.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Central Electronics

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

195X CENTRAL ELECTRONICS

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	15 V	Published datasheet value
Heater/Filament Current	36 A	Published datasheet value



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	50000 V	—
Peak anode current	15 A	—
Anode dissipation	3000 W	—
Filament starting surge current	80 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	15 V	—
Filament current	36 A	—
Filament cold resistance	0.042 ohm	—

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

TUBE TINKER

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and their source documents.

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