

ELECTRONIC TUBE REFERENCE

X80

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated high-vacuum dual rectifier for high-voltage rectifier and clipper service. Its heavy filament, roughly 40 kV inverse-voltage capability, and substantial current rating suit demanding high-voltage electronic systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11.5 V / 15.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	550 W
PEAK INVERSE VOLTAGE	40000 V
NOMINAL OUTPUT CURRENT	700 mA
PEAK FORWARD CURRENT	2.5 A

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	40000 V
NOMINAL OUTPUT CURRENT	700 mA
PEAK FORWARD CURRENT	2.5 A

The X80 is a high-vacuum diode for rectifier and clipper 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	2.5 A	—
Average anode current	700 mA	—
Anode dissipation	550 W	—
Clipper filament voltage	12.2 V	—
Clipper peak inverse voltage	33000 V	—
Clipper peak anode current	50 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	11.5 V	—
Filament current	15.25 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Radiation	—

1960 CENTRAL ELECTRONIC TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	40000 V	—
Peak anode current	2.5 A	—
Average anode current	700 mA	—
Anode dissipation	550 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Clipper filament voltage	12.2 V	—
Clipper peak inverse voltage	33000 V	—
Clipper peak anode current	50 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	11.5 V	—
Filament current	15.25 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Radiation	—

TUBE TINKER

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and their source documents.

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