



ELECTRONIC TUBE REFERENCE

F8208

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Water-cooled directly heated high-vacuum power diode with pure-tungsten cathode for rectifier and limited-emission circuits. Its massive filament supports multiampere high-voltage service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	22 V / 60 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	20000 W
PEAK INVERSE VOLTAGE	45000 V
NOMINAL OUTPUT CURRENT	3 A
PEAK FORWARD CURRENT	10 A
<i>Cooling: Water</i>	

High-vacuum power diode designed for rectifier service and special circuits requiring the limited-emission characteristics of a pure-tungsten cathode. The water-cooled anode dissipates 20 kW.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	45000 V	—
Plate dissipation	20000 W	—
Filament starting current	120 A	—
Minimum water flow	4 gpm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance	13 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament cold resistance	0.031 ohm	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT Industrial and Transmitting Tubes

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

1962 ITT INDUSTRIAL AND TRANSMITTING TUBES

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	13 pF	—
FilamentStartingCurrent	200 A	—
FilamentColdResistance	0.031 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AveragePlateDissipation	20 kW	Rectifier
PeakPlateDissipation	40 kW	Surge;Maximum5Seconds

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#)[Tube types](#)[Full books](#)[Blog](#)[Feedback & corrections](#)

© 2026 Tube Tinker