



ELECTRONIC TUBE REFERENCE

F8207

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Rugged water-cooled directly heated high-vacuum power diode for rectifier, shunting, and charging service. Its massive filament and multiampere high-voltage capability suit major power systems.

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

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	8000 W
PEAK INVERSE VOLTAGE	30000 V
NOMINAL OUTPUT CURRENT	6 A
PEAK FORWARD CURRENT	100 A
<i>Cooling: Water</i>	

High-vacuum power diode for rectifier service and special shunting or charging circuits. Its rugged water-cooled anode can dissipate up to 8 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	30000 V	—
Peak plate current	100 A	—
Average plate current	6 A	—
Plate dissipation	8000 W	—
Water flow at 8 kW	3.5 gpm	—
Maximum water pressure	80 psi	—



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

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectifierServiceMaximumPIV	30 kV	Rectifier
ShuntServiceMaximumPIV	50 kV	Shunt
MaximumPeakPlateCurrentRectifier	60 A	Rectifier

TUBE TINKER

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and their source documents.

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