



ELECTRONIC TUBE REFERENCE

8109

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Water-cooled rugged high-power vacuum diode for rectifier, shunt, and charging service. Its enormous filament, tens-of-kilovolts capability, and multiampere output suit major pulsed and industrial power systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 210 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	60000 V
NOMINAL OUTPUT CURRENT	12 A
PEAK FORWARD CURRENT	150 A
WARM-UP TIME	15 s
<i>Applicable promoted fields mapped semantically from the printed ratings; device-specific electrical limits and operating conditions are preserved densely in TUBE_SECTION_PARAMETER.</i>	

Water-cooled rugged high-power diode for rectifier, shunt, and charging service.



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	60000 V	—
Peak Plate Current Shunt	150 A	Shunt
RMS Plate Current Charging	16 A	Charging
Peak Plate Current Rectifier	36 A	Rectifier
Average Plate Current Rectifier	12 A	Rectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode Capacitance	21 pF	—

TUBE TINKER

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and their source documents.

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