



ELECTRONIC TUBE REFERENCE

7656

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Forced-air-cooled directly heated high-vacuum power diode for rectifier, charging, and shunt service. Rated for approximately 40 kV peak inverse voltage, 2.5 A DC output, and 100 A peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11 V / 28 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	3000 W
PEAK INVERSE VOLTAGE	40000 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	100 A

Forced-air-cooled high-vacuum power diode for shunt, charging, and rectifier 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	11 V	—
Filament Current	28 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Inverse Voltage	40000 V	—
Maximum Peak Plate Current	100 A	—
Maximum Average Plate Current	2.5 A	—
Maximum Plate Dissipation	3000 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode Capacitance	8.5 pF	—