



ELECTRONIC TUBE REFERENCE

7975

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Forced-air-cooled rugged high-vacuum half-wave rectifier for high-voltage, high-current conversion. Rated for approximately 55 kV peak inverse voltage, 5 A average output, and 100 A peak current.

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	3500 W
PEAK INVERSE VOLTAGE	55000 V
NOMINAL OUTPUT CURRENT	5 A
PEAK FORWARD CURRENT	100 A

Forced-air-cooled rugged high-vacuum rectifier diode.

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	15 V	—
Filament Current	36 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Inverse Voltage	55000 V	—
Maximum Peak Plate Current	100 A	—
Maximum Average Plate Current	5 A	—
Maximum Plate Dissipation	3500 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode Capacitance	11.5 pF	—